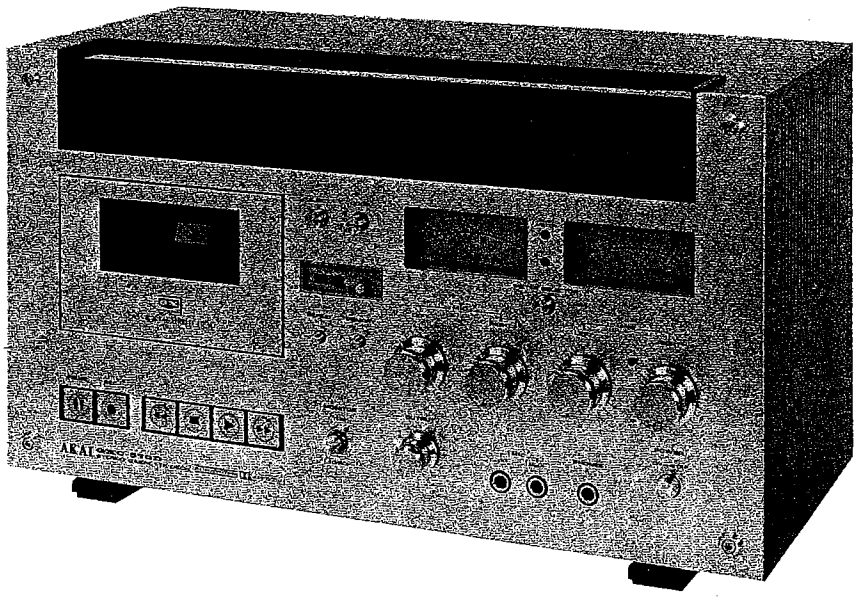
# SERVICE MANUAL

## PARTS LIST

MODEL GXC-570D

AKAI



# CASSETTE STEREO TAPE DECK

## MODEL GXC-570D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SECTION 1

# SERVICE MANUAL

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**For basic adjustments, measuring methods, and operating principles, refer to GENERAL OPERATING PRINCIPLES AND ADJUSTMENTS.**

# I. TECHNICAL DATA

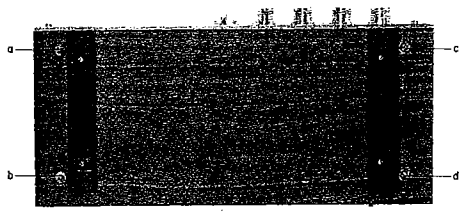
| | |
|---|---|
| TRACK SYSTEM | 4 track 2 channel stereo system |
| TAPE | Philips type cassette |
| TAPE SPEED | 1-7/8 ips (Pitch Control ±5%) |
| WOW AND FLUTTER | Less than 0.06% WRMS<br>Less than 0.17% (DIN 45500) |
| FREQUENCY RESPONSE | 30 Hz to 15,000 Hz (±3 dB) using low noise tape<br>30 Hz to 16,000 Hz (±3 dB) using $CrO_2$ tape<br>30 Hz to 19,000 Hz (±3 dB) using Fe-Cr tape |
| DISTORTION | Less than 1% (1,000 Hz "0" VU) using low noise tape |
| SIGNAL-TO-NOISE RATIO | Better than 52 dB (measured via tape with peak recording level of +5 VU)<br>Dolby Switch ON: Improves up to 10 dB above 5 kHz |
| ERASE RATIO | Better than 70 dB |
| BIAS FREQUENCY | 100 kHz |
| HEADS | GX recording/playback head and erase head (3 head system) |
| MOTORS | One AC Servo outer rotor motor for capstan drive and two DC motors for reel drive |
| FAST FORWARD AND REWIND TIME | 60 to 80 seconds (variable) using a C-60 cassette tape |
| OUTPUT JACKS | Line (2): 0.775V ("0" VU)<br>Required load impedance: More than 20 k ohms<br>Phono (1): 50 mV/8 ohms |
| INPUT JACKS | Microphone (2): 0.3 mV<br>Required microphone impedance: 600 ohms<br>Line (2): 70 mV/100 k ohms |
| TRANSISTOR | 2SA628 (E) (F) ..... 3<br>2SB605 (K) (L) ..... 2<br>2SC458LG (C) ..... 8<br>2SC945L (P) (Q) (R) ..... 75<br>2SC1175 (E) (F) ..... 3<br>2SC1211 (E) (F) ..... 1<br>2SC1222 (E) (F) ..... 4<br>2SC1647 (S) (E) ..... 6<br>2SC1683 (P) (Q) ..... 1<br>2SD360 (D) (E) ..... 1<br>2SD361 (D) (E) (D1) ..... 2<br>2SD401 (K) (L) ..... 1<br>2SD571 (K) (L) (M) ..... 6 |
| FET | 2SK30A (D) (GR) ..... 10<br>2SK68A (L) (M) ..... 2 |
| IC | μPC1023H ..... 2<br>μPC1024H ..... 4<br>TA7122AP ..... 2<br>DN835 ..... 1 |
| DIODE | 1N34A ..... 8<br>1S2473 ..... 59<br>1S2473VE ..... 88<br>10D2 ..... 4<br>10D4 ..... 1<br>10D5 ..... 6<br>WZ085 ..... 2<br>WZ240 ..... 2 |
| POWER REQUIREMENTS | CSA, UL and LA Models: 120V, 60 Hz only<br>CEE Models: 220V, 50 Hz only<br>Other Models: 100V to 240V, 50/60 Hz, (switchable) |
| DIMENSIONS | 440(W) x 255(H) x 225(D) mm<br>(17.3 x 10.0 x 8.9") |
| WEIGHT | 13.5 kg (28.5 lbs) |

NOTES: 1. For improvement purposes, specifications and design are subject to change without notice.
2. Noise reduction circuit made under license from Dolby Laboratories Inc.
The word 'DOLBY' and the Double-D symbol are trademarks of Dolby Laboratories Inc.

# II. DISMANTLING OF UNIT

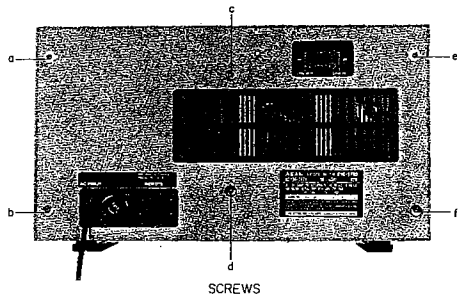
In case of trouble, etc. necessitating disassembly, please disassemble in the order shown in photographs. Reassemble in reverse order.

1



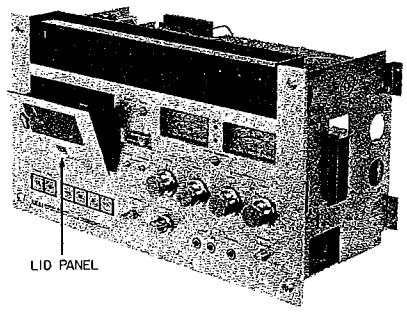

SCREWS

2



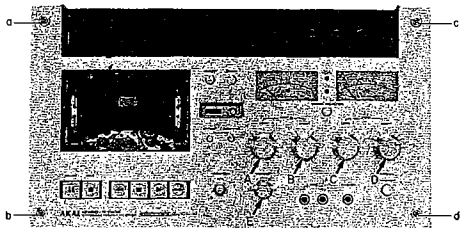

SCREWS

3



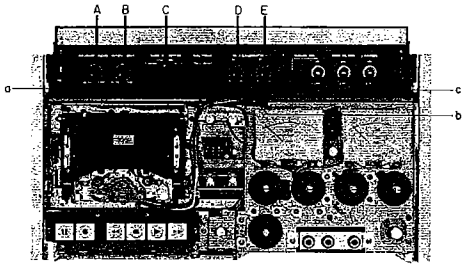
LID PANEL

4



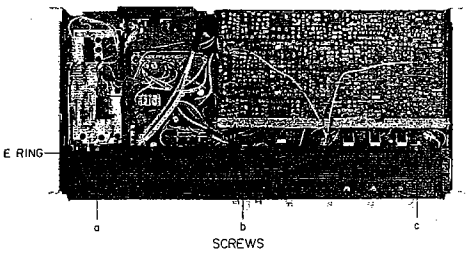

SCREWS & CONTROL KNOBS

5



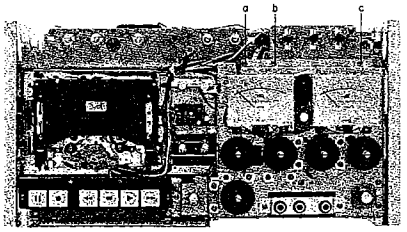

SCREWS & CONTROL KNOBS

6



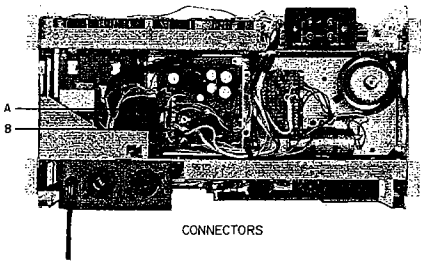

SCREWS

7



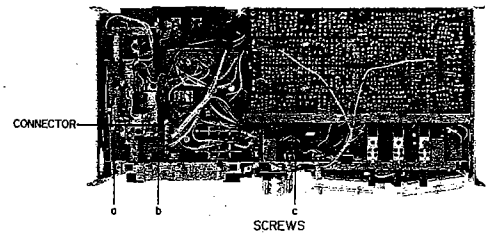

SCREWS

8

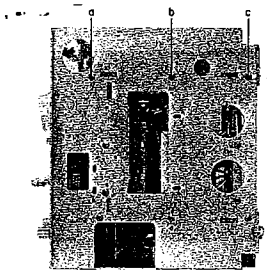



CONNECTORS

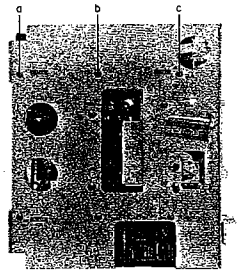
9


CONNECTOR
a
b
c
SCREWS

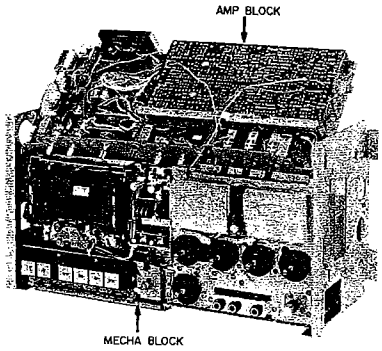
10


a
b
c
SCREWS

11


a
b
c
SCREWS

12


AMP BLOCK
MECHA BLOCK

# III. PRINCIPAL PARTS LOCATION

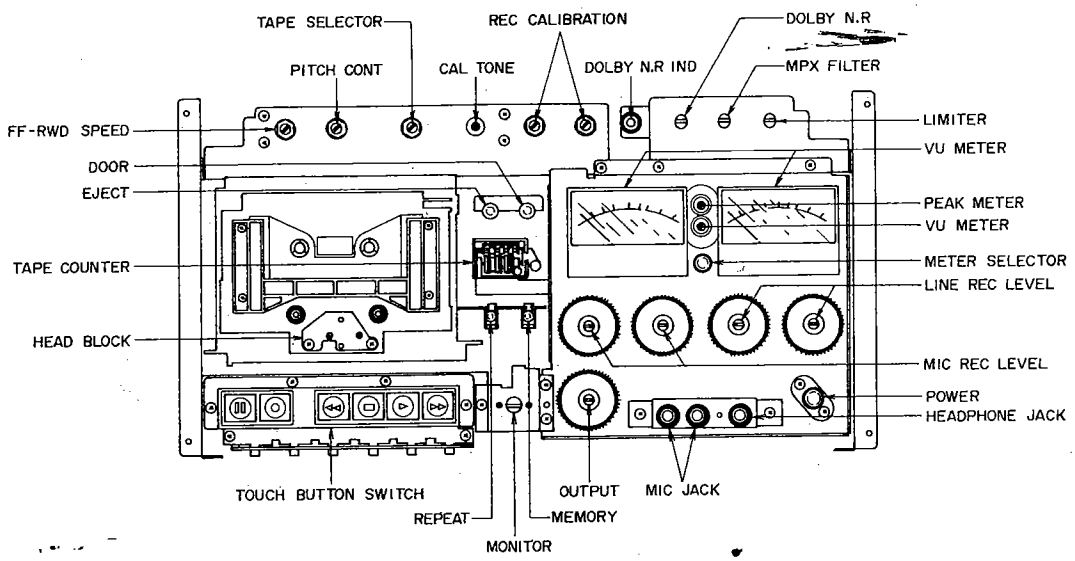



Fig. 1 Front View

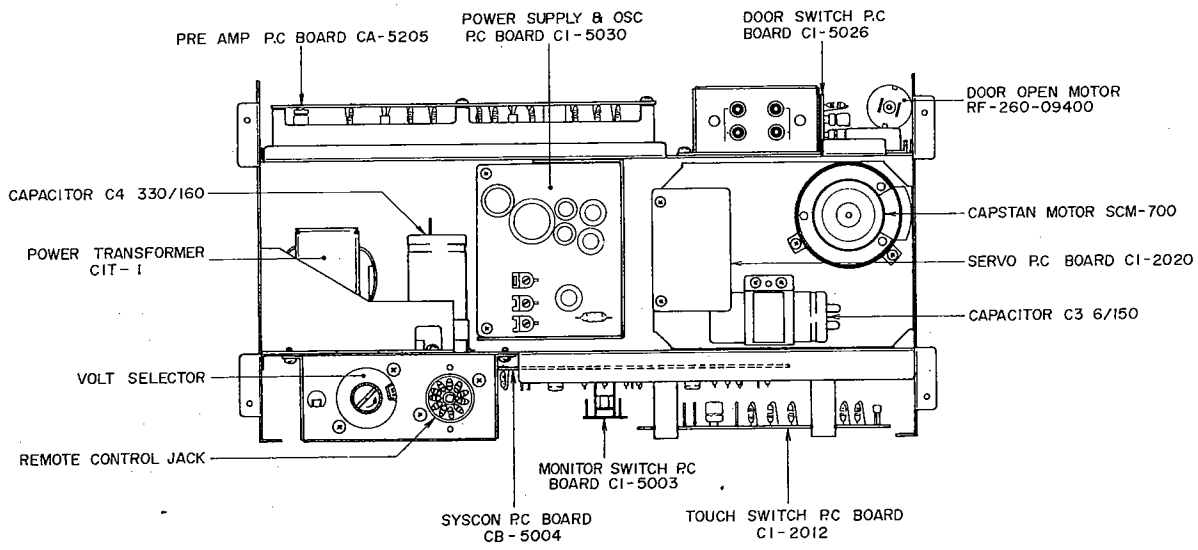
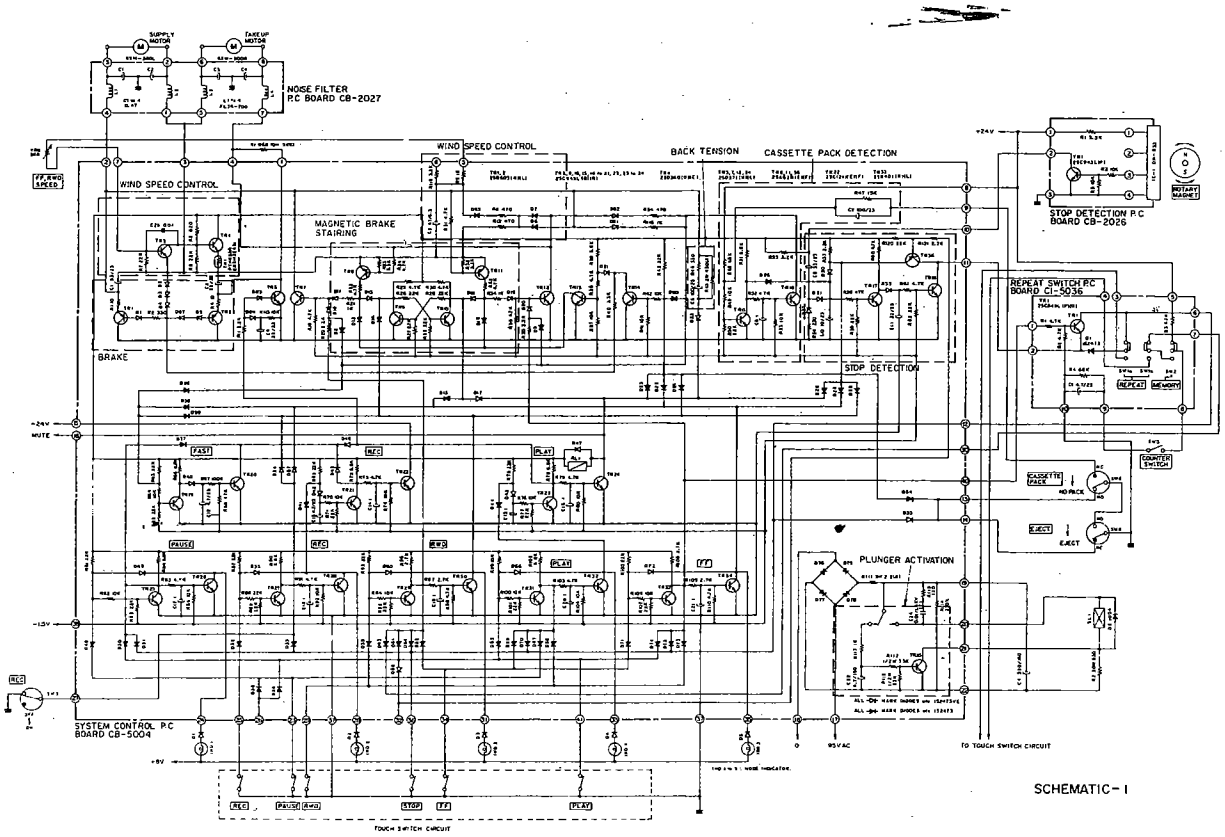


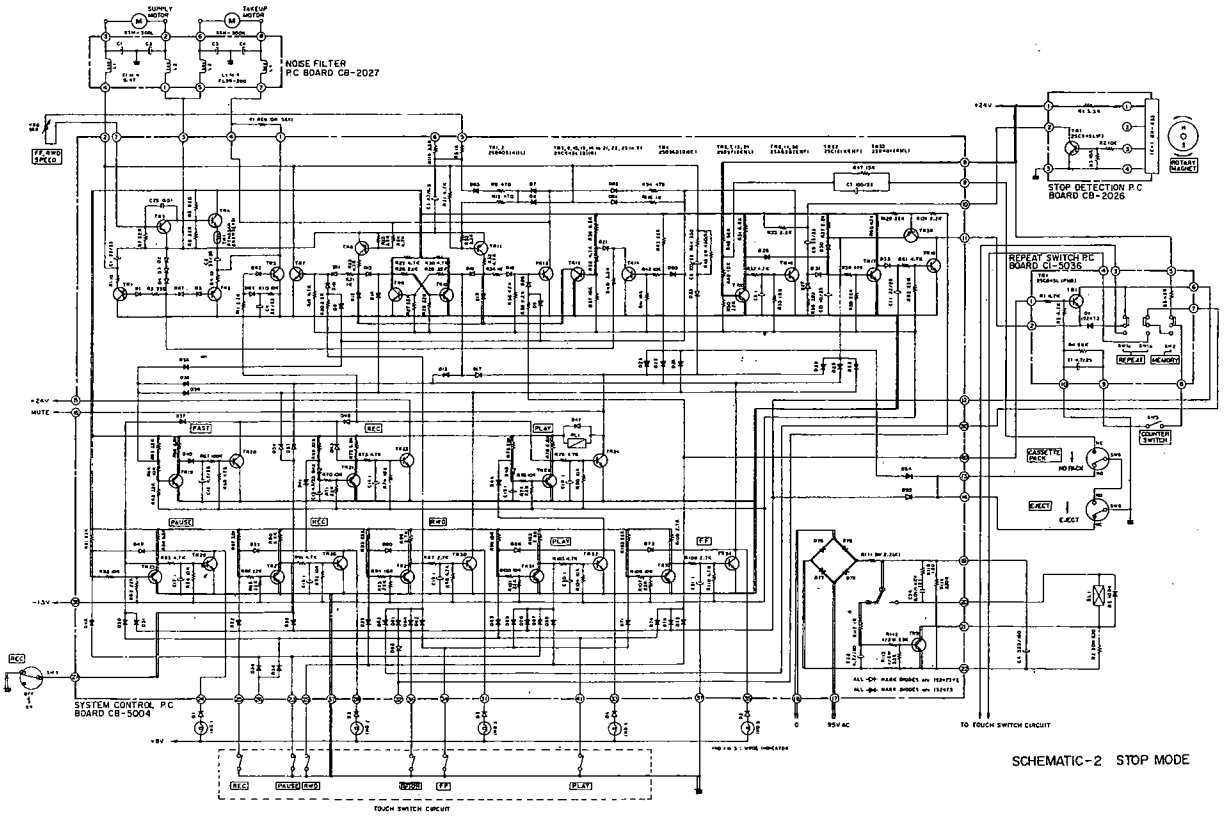

Fig. 2 Rear View

# IV. CIRCUIT OPERATING PRINCIPLES

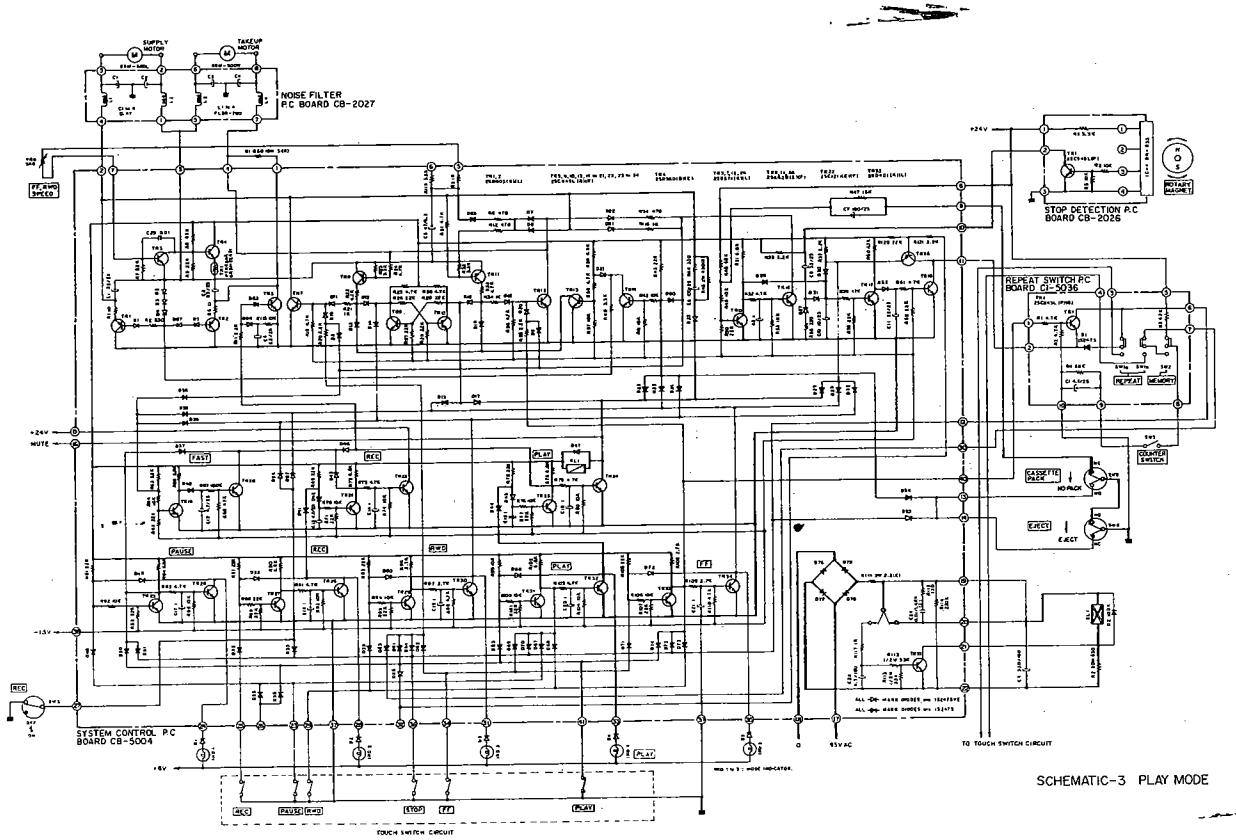
## 1. SYSTEM CONTROL OPERATION



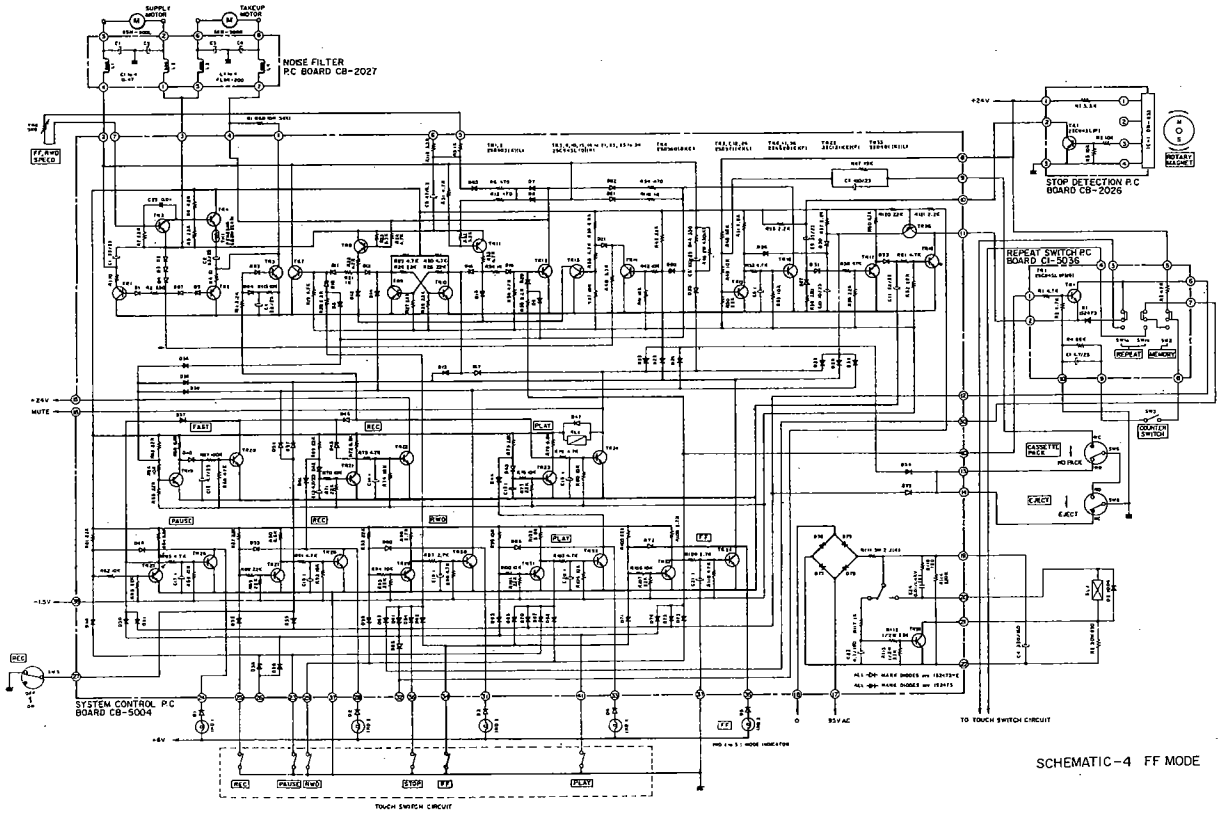

SCHEMATIC-1



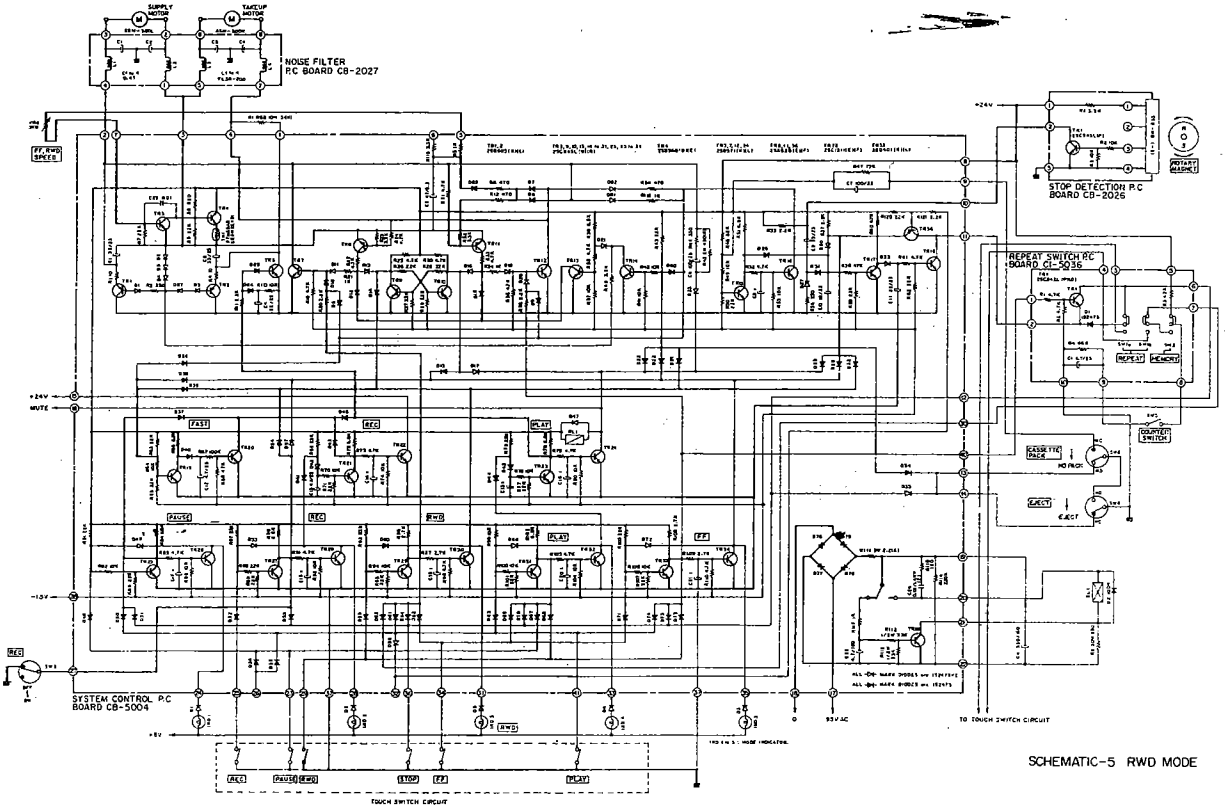

SCHEMATIC-2 STOP MODE




SCHEMATIC-3 PLAY MODE




SCHEMATIC-4 FF MODE




SCHEMATIC-5 RWD MODE

## 1-1. TAPE SLACK ELIMINATION CIRCUIT

1) Because this deck employs a double capstan drive system, if tape with a great deal of slack is used, trouble with the tape tangling around the capstan is likely to occur. Even if only slight tape slack exists, it takes time after effecting a forward mode to obtain proper tape tension, which results in a continuous poor head-to-tape contact condition. The purpose of this circuit is to prevent such trouble by taking up tape slack prior to operation for proper tape tension at all times.

2) When a cassette is not loaded, TR15 assumes an ON condition and TR16 an OFF condition. When a cassette is loaded, cassette detection micro switch SW6 contacts NC side (contact point), and a charge current flows to C7. Within this charge current period, TR15 is turned OFF and collector voltage increases. Charge current flows to R52 and C8 and at the end of the charge current period, TR16 is turned ON and collector current flows. This current passes D81, causing the take-up motor to rotate, and at the same time passes D82, causing the supply motor to rotate. Thus, the tape is pulled from both directions, and any existing slack is eliminated. This process continues until the C7 charge current ends, at which time the circuit returns to it's previous state, stopping both reel motors.

## 1-2. PINCH ROLLER OPERATION AND REEL MOTOR ROTATION TIMING CIRCUIT

1) If reel motor starts to rotate before the pinch roller reaches the capstan, momentary brake tension will be applied, causing the tape to break or stretch. This circuit is for the purpose of eliminating such trouble by activating reel motor revolutions after the pinch roller has contacted the capstan when playback mode is effected.

2) When the deck is set to Play mode, TR23 collector voltage is increased, TR24 is turned ON, the relay functions, and the pinch roller plunger operates. At the same time, as a result of an increase in TR23 collector voltage, charge current passes R11 and D84 and flows to C4. During the period of this flow of charge current, TR5 base voltage is lowered, and because TR5 is turned OFF, the take-up motor does not rotate. However, at the end of this flow of charge current, TR5 base voltage increases, TR5 is turned ON, and motor starts to rotate.

The period of time until TR5 is turned ON is about 0.1 to 0.2 seconds.

## 1-3. FAST FORWARD AND REWIND SPEED CONTROL CIRCUIT

1) The reel motors employed in this deck are DC motors which at a non-load condition rotates at about 3,000 rpm. Consequently, when Fast Foward or Rewind is effected, there is a possibility of tape damage due to a gradual build-up of inertia and increased revolutions. This circuit is for the purpose of controlling supply voltage to the take-up reel motor for suppression of increased motor revolutions.
2) When the deck is set to Fast Forward mode, TR12 is turned ON and the take-up motor begins to rotate. When the supply reel motor is not rotating, because bias is not supplied to the base of TR3, the resistance between TR3 collector and emitter is infinite, and a fixed bias is supplied to TR4 through R8 and R9, a fixed DC voltage is supplied to the take-up reel motor, and there is a build-up of inertia and gradual increase in motor revolutions.
   However, at Fast Forward Mode, the supply reel motor of this deck functions as a generator. Consequently, the electromotive force generated by the supply reel motor passes D6, D85, R6 and R119 and becomes TR3 base bias, and the resistance between TR3 collector and emitter is varied proportionately according to the extent of the generator's electromotive force.
   That is to say, R9 and the resistance between TR3 collector and emitter becomes parallel composite resistance and bias to TR4 is varied by this composite resistance. Momentarily, when the take-up reel motor begins to rotate at high speed, this counterbalanced electromotive force is generated by the supply reel motor and this generated voltage increases the resistance between TR4 collector and emitter and the supply voltage to the take-up reel motor is decreased. Thus, motor revolutions are slowed for a decrease in speed. In this manner, the take-up speed always corresponds with the supply reel motor speed, thus avoiding high speed motor revolutions.
3) Speed control also functions in exactly the same way at Rewind mode. However, in this case, the right hand side reel motor functions as a generator, and left hand side reel motor revolutions are controlled by means of supply voltage control. Therefore, Rewind speed is controlled in the same way as at Fast Forward.

## 1-4. MAGNETIC BRAKING CIRCUIT

1) This deck differs from other 3 motor system decks to date in that instead of a mechanical braking system, tape travel is stopped electrically, and a magnetic braking system is employed. When Fast Forward or Rewind is being effected, the take-up motor rotates while being controlled by the rotation of the supply side motor.
   This circuit is for the purpose of applying magnetic braking to the proper motor when stop mode is being effected from Fast Forward or Rewind.
2) At Fast Forward, TR12 is turned ON and the take-up motor rotates. The supply side motor rotates and functions as a generator to maintain proper take-up motor revolutions. At this time, the magnetic braking circuit maintains TR8 and TR10 at ON, and TR9 and TR11 at OFF condition. D12 is grounded through D13 and D12 anode becomes identical to grounding electrical potential. Consequently, TR7 assumes an OFF condition. (In other words, current does not flow to the supply side motor).
3) When the deck is stopped from Fast Forward mode, TR12 is turned OFF, and the current to the take-up motor ceases. Also TR14 is turned ON and TR13 turned OFF, and at the same time, D1 anode assumes a floating condition. Current flows by means of the electromotive force from the take-up side motor, and this current turns ON TR7 and voltage is supplied to the supply side motor. This voltage becomes the braking voltage of the supply side motor.
4) When magnetic braking is first applied, because the take-up motor is rotating fairly fast, a large electromotive force is generated, TR17 is turned completely ON, and maximum voltage is supplied to the supply side motor. Thus, speed is reduced and at the same time, this voltage is decreased. Also the take-up motor electromotive force disappears, and at the same time, the supply side motor rotation stops.
5) When the deck is stopped from Fast Forward mode, the operation is the same as described above. Only the circuit components differ.

## 1-5. AUTOMATIC SHUT-OFF MECHANISM CIRCUIT

1) This circuit is for the purpose of effecting automatic shut-off when tape travel has stopped after play, recording, fast forward, or rewind mode.
2) During tape travel, because the rotary magnet rotates, Stop Detection circuit TR1 performs the ON ⇔ OFF switching operation. Also during tape travel, because D30 anode becomes grounding electrical potential, TR17 is turned OFF. However, charge and discharge current alternately flows to C9 by means of the Stop Detection circuit. At charging time, current flows to R55 → C9 → D31 → C10, and TR17 is turned ON. At discharging time, current flows to R56 → D27 → C9 → TR1 (stop detection circuit). During this time, C10 discharge current passes R58 and TR17 is maintained at ON condition. When tape travel has stopped, C9 charge and discharge current will not flow, C10 discharge current also ends, and TR17 is turned OFF. Then TR18 is turned ON, and the diode connected to TR18 collector for instance, if automatic shut off is effected from play mode, D70 is grounded, play circuit TR32 is turned OFF, and Shut-off mode is effected.

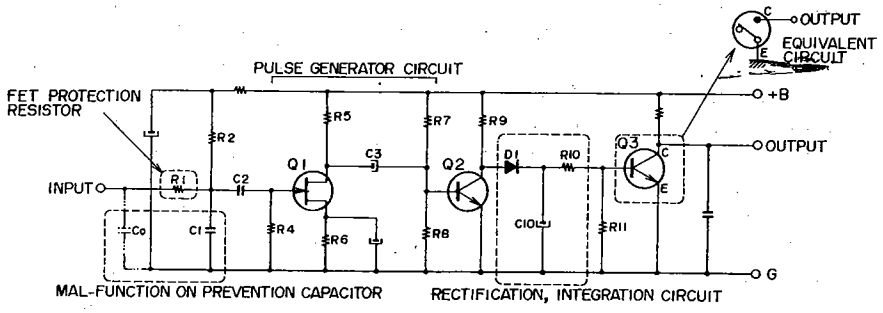



Fig. 3

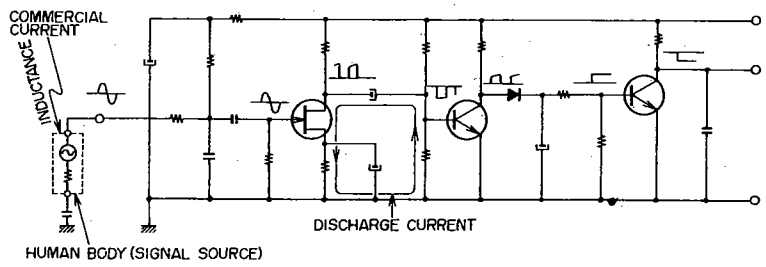



Fig. 4

## 2. TOUCH BUTTON SYSTEM OPERATION

### 2-1. TOUCH BUTTON SYSTEM CIRCUIT COMPONENT (Refer to Fig. 13)

As shown in Fig. 3, generally divided, the touch button system circuit is comprised of a pulse generator circuit, a rectifier circuit, and an integration circuit and includes a malfunction prevention capacitor and FET protection resistor, etc.

Because it is necessary for the malfunction prevention capacitor shown by the dotted line to have a fairly high voltage, a shielded wire distribution capacitor is used with a capacitance of 50 to 60 PF.

As shown by the equivalent circuit in the diagram, last stage transistor Q3 performs the exact same function as a micro switch.

### 2-2. WHEN TOUCH BUTTON IS TOUCHED WITH FINGER, OPERATION IS SAME AS MICRO SWITCH SYSTEM USED TO DATE (Refer to Figs. 4, 6)

Because of inductance in our bodies from commercial power supply (50 Hz or 60 Hz), if we touch one of the touch buttons with our finger, our body becomes a signal source as shown in Fig. 4 and the same thing takes place as in the case of a micro switch system to date. Therefore, when a button is touched with a finger, a signal is supplied to FET Q1 gate as shown in Fig. 4.

The charge at C3 when a signal is not supplied is only equivalent to the drain voltage. Base bias is supplied to Q2 from R7 and R8 and no signal is emitted at Q2 collector. Consequently, Q3 base becomes unbiased and Q3 does not function.

The signal supplied to Q1 gate works to reduce the impedance between FET drain and source, and the electric charge charged at C3 passes Q1 → R6 → and R8 and is discharged.

C3 discharge causes a large minus bias at Q2 base, collector voltage increases, and this pulse is rectified at D1 and integrated at C10, R10 and supplied to Q3 as base bias. Consequently, Q3 is turned ON and functions in exactly the same way as a micro switch has functioned to date.

### 2-3. WHEN A BUTTON IS TOUCHED WITH A FINGER AND AT THE SAME TIME THE DECK CHASSIS IS TOUCHED WITH ANOTHER FINGER OR A HAND (See Fig. 5)

As previously explained our body acts as a signal source to operate the touch buttons, but when considering that in this case the high resistance of the human body is utilized, the Q1 gate circuit operation is different. As shown in Fig. 5, when a button is touched with a finger and the chassis is touched simultaneously, by means of the resistor shown in the circuit diagram, C2 electric charge passes R1 → Ro → R4 and is discharged. From looking at the circuit, it can be understood that discharge is completed in an extremely short time. In this very short discharge time period, FET is cut, the drain voltage increases, and condenser C3 is charged. When C2 discharge is complete and the voltage of both terminals becomes equal, FET drain current flows and the electric charge charged at C3 is discharged. Consequently, Q2 base is minus biased and ceases to operate. Thus, Q3 functions in the same way as a micro switch as outlined in item 2-2 above.

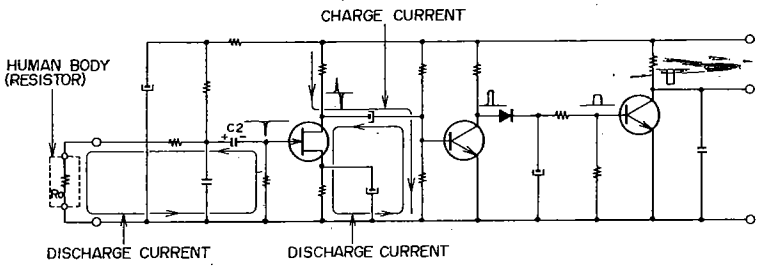

CHARGE CURRENT
HUMAN BODY
(RESISTOR)
C2
DISCHARGE CURRENT
DISCHARGE CURRENT

Fig. 5

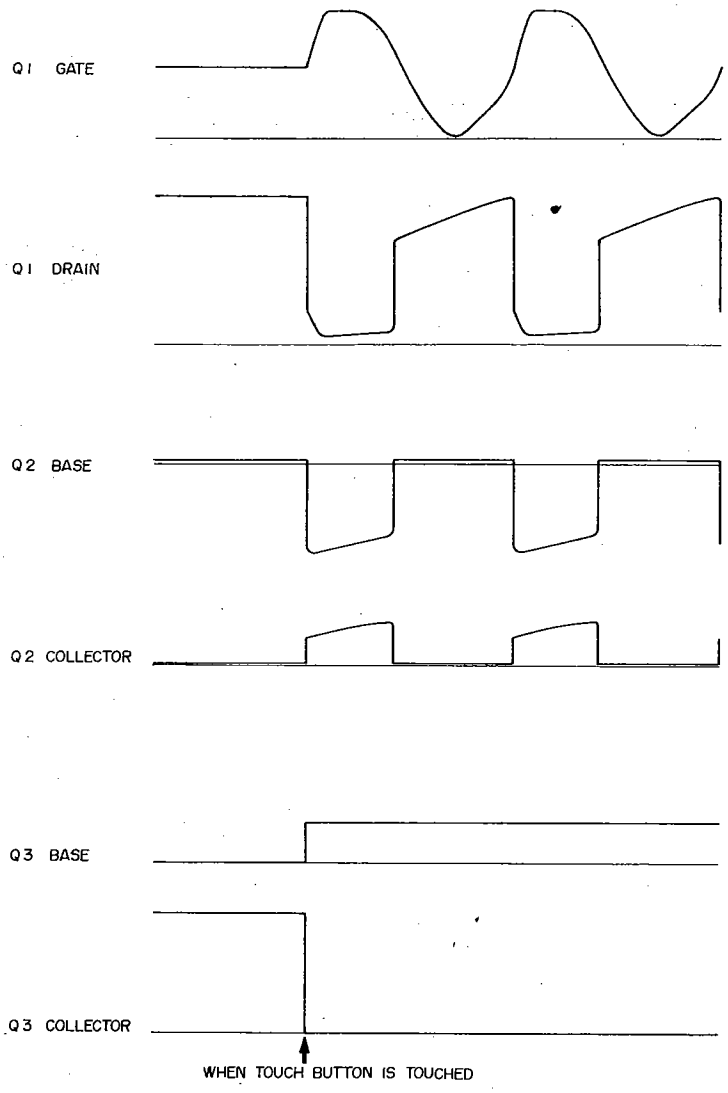

Q1 GATE
Q1 DRAIN
Q2 BASE
Q2 COLLECTOR
Q3 BASE
Q3 COLLECTOR
WHEN TOUCH BUTTON IS TOUCHED

Fig. 6

# V. MECHANISM ADJUSTMENT

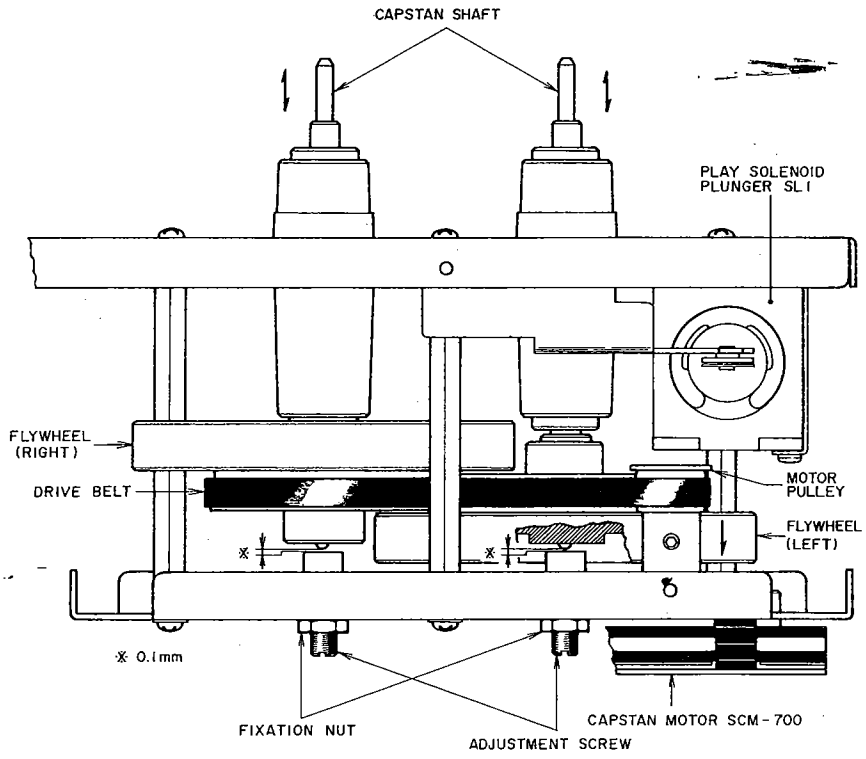



Fig. 7

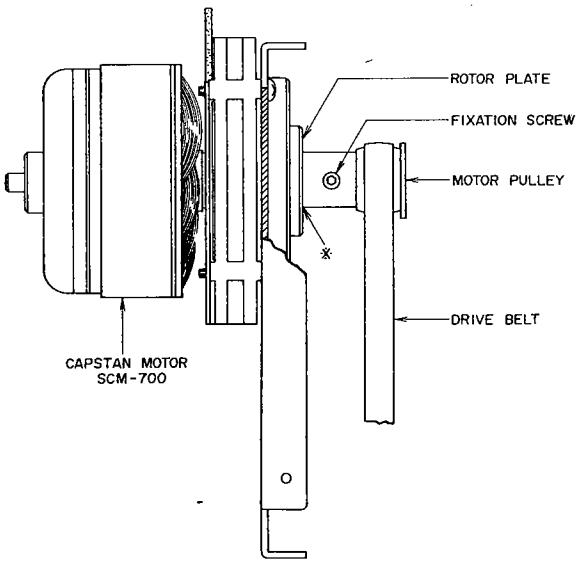



Fig. 8

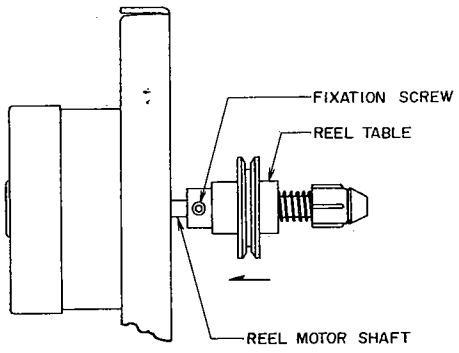



Fig. 9

## 1. CAPSTAN SHAFT LOOSE PLAY ADJUSTMENT (Refer to Fig. 7)

Adjust by turning adjustment screws to obtain a 0.1 mm degree of loose play (space indicated by * mark in Fig. 7) when the capstan shaft is moved as indicated by the arrow mark. Tighten fixation nut to maintain optimum adjusted condition.

## 2. MOTOR PULLEY INSTALLATION POSITION ADJUSTMENT (Refer to Fig. 8)

Tighten fixation screw at position at which the parts indicated by the * mark in Fig. 8 makes contact with the rotor plate.

NOTE: After above adjustment, in case the drive belt does not run on the center of Motor Pulley, re-adjust installation position of Motor Pulley so that the drive belt comes to the center of the Pulley.

## 3. REEL TABLE INSTALLATION POSITION ADJUSTMENT (Refer to Fig. 9)

As shown in Fig. 9, with reel table firmly and completely fitted on motor shaft, tighten fixation screw.

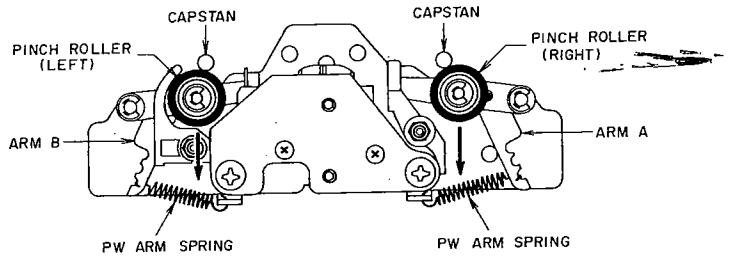



Fig. 10

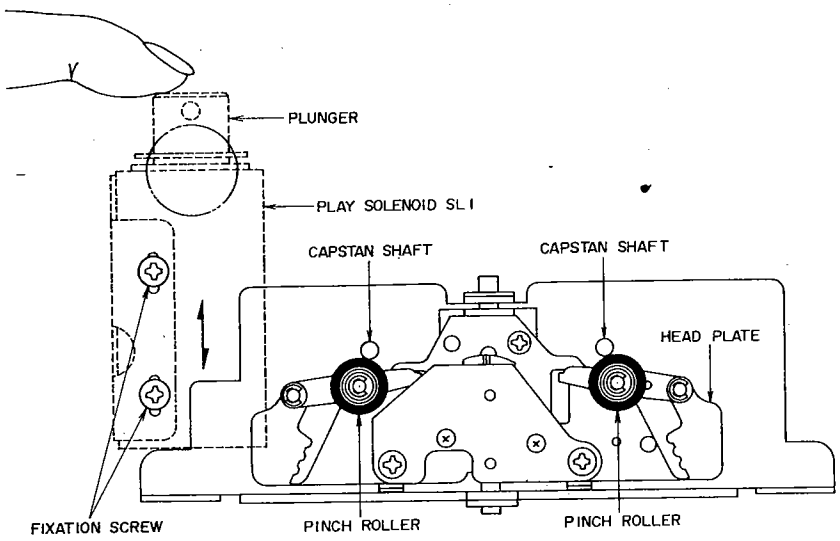



Fig. 11

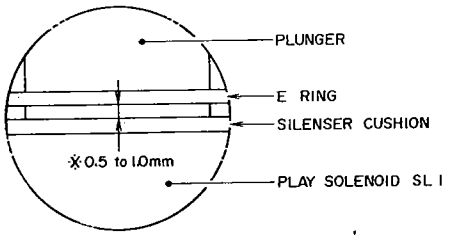



Fig. 12

## 4. PINCH ROLLER PRESSURE ADJUSTMENT (Refer to Fig. 10)

Pull back the Pinch Roller with a spring gauge, and then gently return. Take a reading of the spring gauge scale indication at the moment the Pinch Roller touches the capstan and begins to rotate. Adjust pressure to specified value by changing position of the PW ARM SPRING.

Specified Pinch Roller Pressure:

| | |
|---|---|
| Pinch Roller (right) | 400 ± 50 gr |
| Pinch Roller (left) | 300 ± 50 gr |

## 5. PLAY SOLENOID INSTALLATION POSITION ADJUSTMENT (Refer to Fig. 11 and Fig. 12)

As shown in Fig. 11, at stop mode, when the tip of plunger is gently depressed, the pinch roller contacts the capstan shaft, at this time confirm that the gap between "E" ring and silencer cushion is 0.5 to 1.0 mm. (See Fig. 12)

If not, adjust play solenoid installation position as indicated by the arrow mark in Fig. 10 to obtain specified gap.

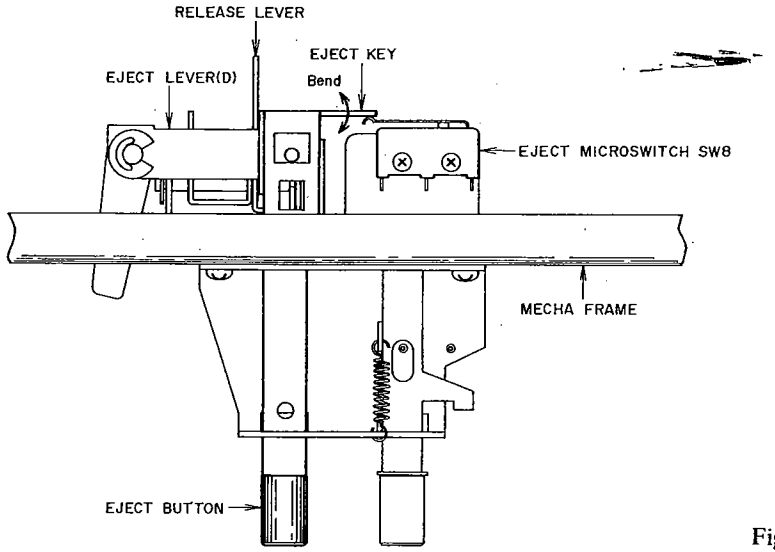



Fig. 13

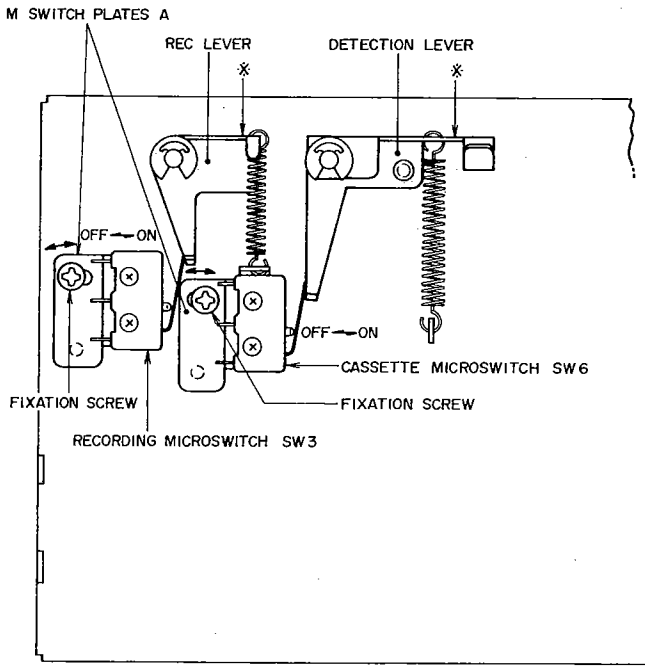



Fig. 14

## 6. ADJUSTMENT OF EJECT MICRO SWITCH ACTUATING POSITION (Refer to Fig. 13)

Adjust by bending Eject Key so that when the Eject Key is depressed, Eject Micro Switch (SW8) shown in Fig. 13 is perfectly actuated. After adjustment, depress Eject Button and confirm that Eject Micro Switch (SW8) switches before the Release Lever operates.

## 7. ADJUSTMENT OF RECORDING MICRO SWITCH (SW3) AND CASSETTE MICRO SWITCH (SW6) ACTUATING POSITION (Refer to Fig. 14)

Move M Switch Plate A as indicated by the arrow marks in the figure and adjust so that when the parts of Recording and Detection Levers marked with * mark in Fig. 14 are at a horizontal level, Recording Micro Switch (SW3) and Cassette Micro Switch (SW6) are turned ON respectively. Further, confirm that when a cassette from which the recording safety tabs have been removed is loaded, Recording Micro Switch (SW3) switches, and when the cassette is removed, Cassette Micro Switch (SW6) switches. Tighten fixation screws to maintain ideally adjusted positions of M Switch Plates A.

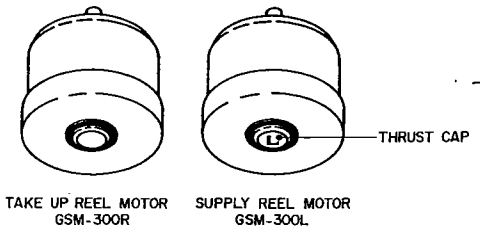



Fig. 15

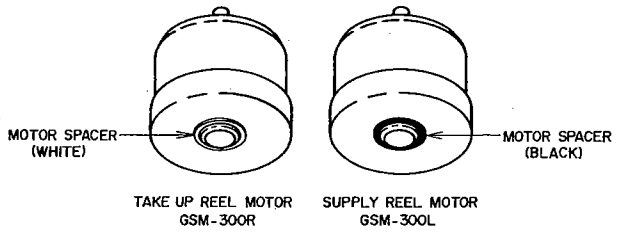



Fig. 16

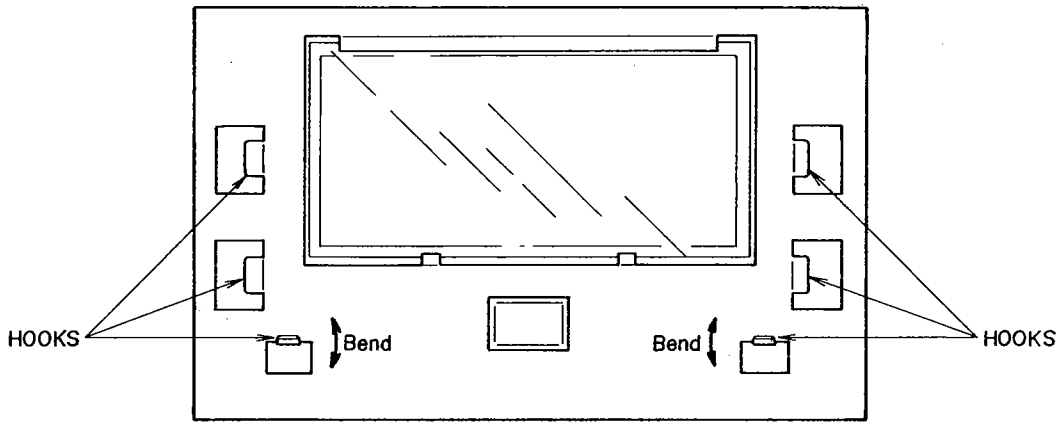



Fig. 17 Inner Side of Lid Panel

## 8. REEL MOTOR (GSM-300) REPLACEMENT (Refer to Fig. 15)

While the reel motors of this Deck are basically the same, because left and right characteristics differ, check as described below prior to replacement.

1) Serial No. 10216-0001 to 10216-0060
   10511-0001 to 10511-0150
   10612-0001 to 10612-0300
   Supply Reel Motor: L mark on thrust cap
   Take up Motor: No marking
2) Serial No.: From 10716-0001
   Motor Spacers of Supply Reel Motor and Take Up Motor are of different colors as shown in Fig. 16.

NOTES: 1. Because brush noise, etc. will occur if left or right motor is substituted, be sure to replace with the correct type for left or right.
2. For the reason outlined in NOTE 1, the motors are clearly distinguishable, but the motors themselves are uniform.

## 9. FRONT PANEL LID CASE SPACING ADJUSTMENT (Refer to Fig. 17)

In case the Lid Case comes too far toward either side, adjust by bending the two lower hooks as indicated by the arrow marks in Fig. 17.

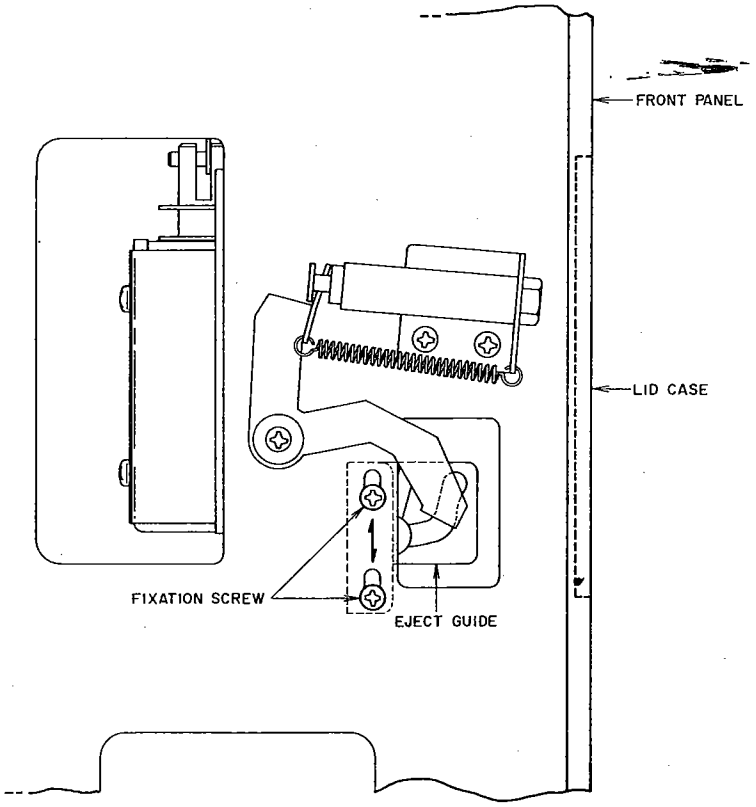



Fig. 18 Left Side of the Deck

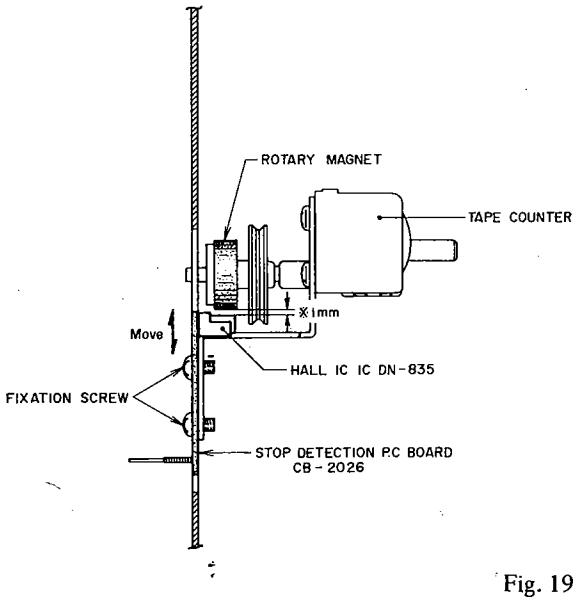



Fig. 19

## 10. POSITION ADJUSTMENT OF LID CASE (Refer to Fig. 18)

Move the Eject Guide shown in Fig. 18 (direction indicated by arrow mark) up and down and adjust Lid Case so that it is even with the front panel. If the upper part of Lid Case comes too far inward, raise the eject guide, and if too far outward, lower eject guide.

## 11. CLEARANCE ADJUSTMENT BETWEEN HALL IC AND ROTARY MAGNET (Refer to Fig. 19)

This adjustment is necessary for the perfection of the Automatic Stop Function. If adjustment is necessary due to poor Automatic Stop Function or instability, proceed as follows:

1) As shown in Fig. 19, move Stop Detection P.C. Board as indicated by the arrow mark in the figure, and adjust position so that the clearance between the HALL IC and rotary magnet is 1 mm.
2) In case this clearance is over 1 mm, faulty Automatic Stop Function will occur.

# VI. HEAD ADJUSTMENT

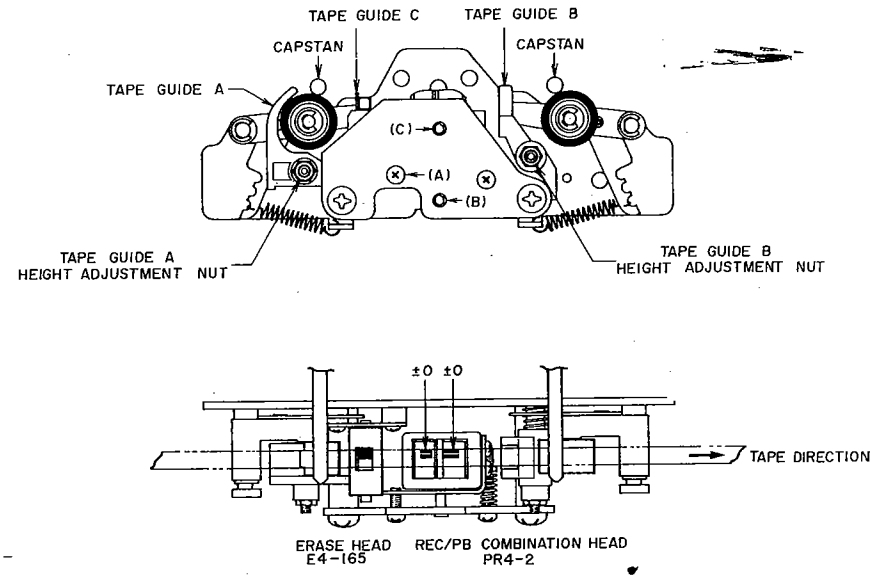



Fig. 20

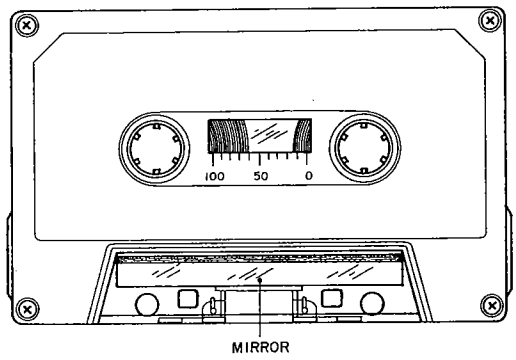



Fig. 21

## 1. TAPE GUIDE HEIGHT ADJUSTMENT (Refer to Fig. 20 and Fig. 21)

1) When using an ordinary cassette, the tape guides and heads, etc. are not visible. As shown in Fig. 21, use a cassette tape from which part of the cassette case has been cut out and a mirror installed for easy visibility of the head area when making tape guide height adjustment.
2) At playback mode, using the erase head guide C shown in Fig. 20 as standard for height, adjust tape guide A and tape guide B height with tape guide height adjustment nuts so that the tape runs smoothly and does not touch on the tape guides.

## 2. HEIGHT ADJUSTMENT OF RECORDING/ PLAYBACK COMBINATION HEAD (Refer to Fig. 20)

1) Utilize the cassette tape used in Tape Guide Height Adjustment above, and playback the leader tape part of cassette tape.
2) As shown in Fig. 20, adjust head height with screws (A), (B), and (C) until the upper edge of the tape is the same height as the upper edge of the left channel REC/PB Comb. head core.

## 3. AZIMUTH ALIGNMENT ADJUSTMENT OF RECORDING/PLAYBACK COMBINATION HEAD (Refer to Fig. 20)

1) Playback a 10 kHz pre-recorded cassette azimuth alignment test tape and adjust screw (A) shown in Fig. 20 to obtain maximum output on both channels.
2) Invert cassette and confirm that the output level does not change from that obtained in Item 3-1) above. If the output level differs, adjust in the same way as in Item 3-1) above until both sides of the test tape display equal output.
3) Supply a 10 kHz signal from an audio frequency oscillator to the line inputs and record at −20 VU on a blank tape.
4) Set Monitor Switch to "TAPE" position and adjust screw (A) shown in Fig. 21 to obtain maximum output on both left and right channels.
5) The recording and playback heads are joined to form a single structure. Therefore, when making azimuth alignment adjustments, because both head cores (recording and playback) move, repeat adjustments outlined in Items 3-1) through 3-4) above until optimum azimuth alignment of the two head cores are obtained.

NOTES:
1. Be sure to clean the heads prior to head adjustment.
2. Be careful not to use a magnetized driver or other magnetized tools in the vicinity of the heads.
3. Be sure to demagnetize the heads with a Head Demagnetizer before and after head adjustment.
4. When a mirror installed cassette test tape as shown in Fig. 21 is required, it can be ordered from AKAI Electric Co.

# VII. AMPLIFIER ADJUSTMENT

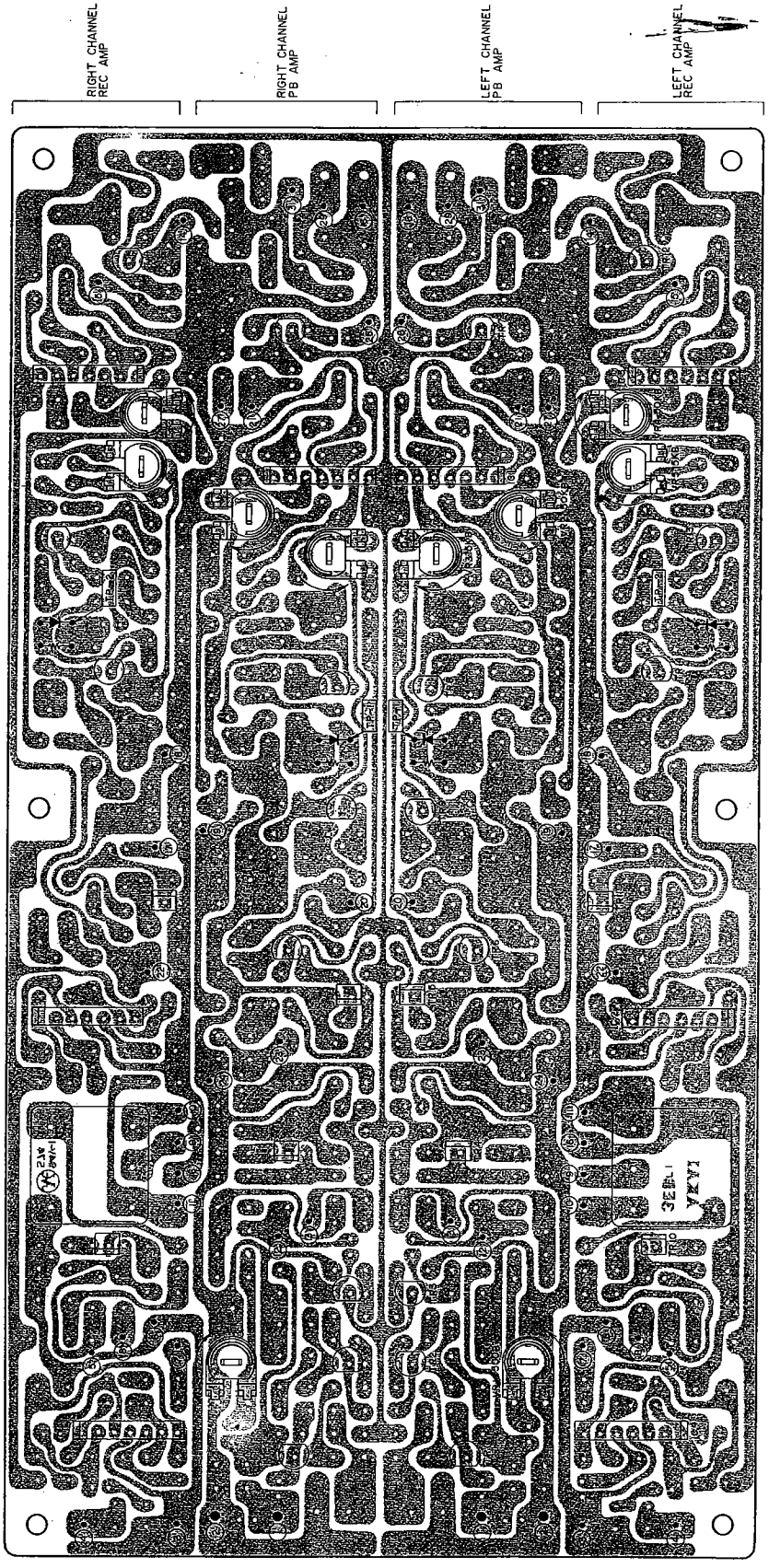



Fig. 22 Pre Amp P.C Board CA-5205

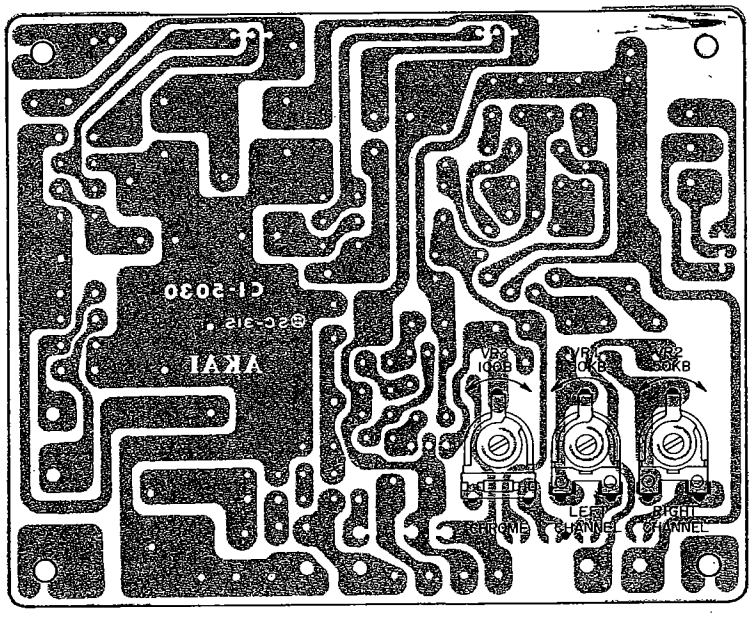



Fig. 23 Power Supply & OSC P.C Board CI-5030

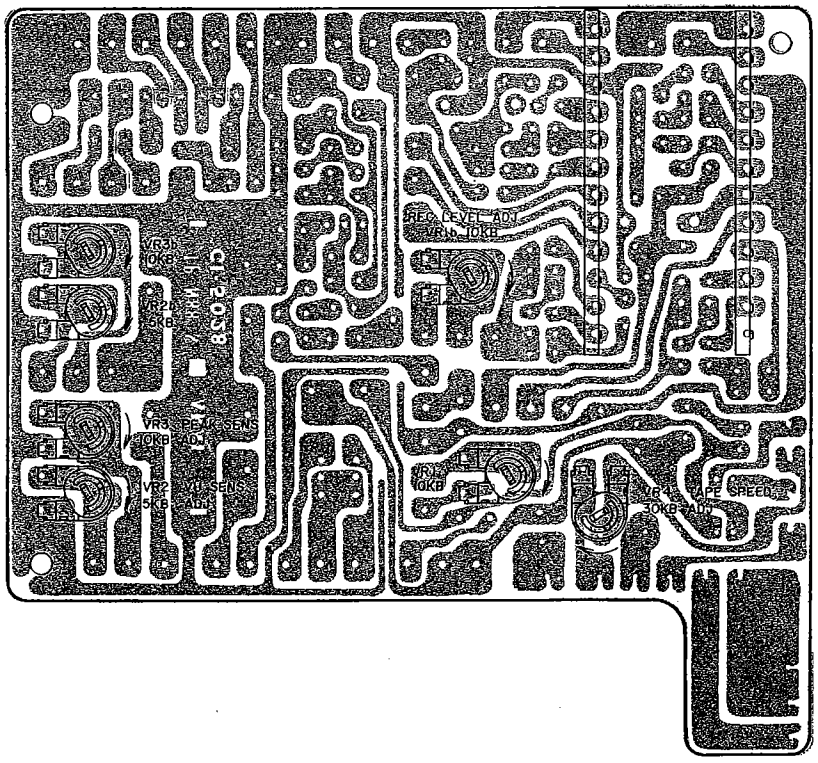



Fig. 24 Equalizer P.C Board CI-5028

## 1. RECORDING/PLAYBACK AMPLIFIER ADJUSTMENT (Refer to Fig. 22, 23 and 24 and Chart 1)

| Step | Adjustment Item | Test Tape Supply Signal | Mode | Adjustment Point | Result | Remarks |
|---|---|---|---|---|---|---|
| 1 | Playback Level Adjustment | 333 Hz 0 VU Test Tape | PLAY | VR1 500B (CA-5205) | 0±0.5 dBm (0.775V) | Set Monitor Switch to "TAPE" |
| 2 | Recording Level Adjustment (low noise tape) | Low Noise Blank Tape 1,000 Hz 0 VU recording | REC | VR1 10 kB (left channel) VR1b 10 kB (right channel) (CI-5028) | 0±0.5 dBm (0.775V) | Set Monitor Switch to "TAPE" Refer to Note -1) |
| 3 | Recording Level Adjustment (chrome tape) | Chrome Blank Tape 1,000 Hz 0 VU recording | REC | None | 0±0.5 dBm | Set Monitor Switch to "TAPE" Refer to Note -2) |
| 4 | Frequency Response Adjustment (low noise tape) | Low Noise Blank Tape 1,000 Hz 10,000 Hz −20 VU recording | REC | VR1 50 kB (left channel) VR2 50 kB (right channel) (CI-5030) | 1,000 Hz 10,000 Hz Flat response | Set Tape selector to "LOW NOISE" |
| 5 | Frequency Response Adjustment (chrome tape) | Chrome Blank Tape 1,000 Hz 10,000 Hz −20 VU recording | REC | VR3 100B (CI-5030) | 1,000 Hz 10,000 Hz Flat response | Set Tape selector to "CHROME" |
| 6 | Recording Level Confirmation (low noise tape) | Low Noise Blank Tape 1,000 Hz 0 VU recording | REC | VR1, VR1b 10 kB (CI-5028) | 0±0.5 dBm | Refer to Note -3) |
| 7 | VU Meter Sensitivity Adjustment | 1,000 Hz | STOP | VR2, VR2b 5 kB (CI-5028) | 0 VU | Set Meter selector to "VU METER" Refer to Note -4) |
| 8 | Peak Meter Indication Adjustment | 1,000 Hz | STOP | VR3, VR3b 10 kB (CI-5028) | −8 VU | Set Meter selector to "PEAK METER" Refer to Note -4) |

Chart 1

NOTES:
1. Recording level adjustment volumes (REC CAL) VR5 and VR6 are not located on the Pre-Amp P.C Board as in the case of an ordinary tape deck, but are installed on the front panel. When adjusting VR1 and VR1b, set VR5 and VR6 to center position.
2. After low noise tape adjustments, confirm recording level only.
3. Following Step 4 frequency response adjustment, because the recording level may be slightly changed, confirm level and if necessary, carry out Step 2 Adjustment again.
4. Set Monitor Switch to "SOURCE" and supply a 1,000 Hz signal to line input to obtain a 0 dBm line output level.
5. Because each of these adjustments are vital to perfect Dolby N.R. circuit operation, be sure that they are carried out with as little error as possible.
6. Use the following cassette measuring tape:
   Low Noise Tape: Fuji C-60LN
   Chrome Tape: BASF #SM Chrome C-60

## 2. DOLBY NOISE REDUCTION CIRCUIT ADJUSTMENT (Refer to Fig. 22)

NOTES:
1. Because the establishment of the (5 kHz) adjustment signal and level etc. is vital to correct Dolby Noise Reduction circuit adjustment, use only calibrated measuring instruments.
2. Level deviation must be within ±0.5 dB.
3. After Dolby Noise Reduction circuit adjustments have been made, do not change recording and playback levels.

## 3. RECORDING DOLBY NOISE REDUCTION AMPLIFIER ADJUSTMENT

(Refer to Fig. 22)

1) Set Monitor Switch to "SOURCE", and Tape Selector Switch to "LOW NOISE".
2) Ground Test Point TP2 and turn adjustment semi-fixed resistors VR4 (50 kB) and VR5 (5 kB) as far as they will go in the direction of the arrow mark.
3) With Line Recording Level Volume set to 12 o'clock position, supply a 5 kHz signal to the line input and obtain a −28.5 dBm line output level.
4) Connect a Voltmeter to the center terminal of EQ P.C Board Rec Level Volume VR1 (left channel) and VR1b (right channel), and adjust Rec Level Volume obtain a −30 dBm AC Voltmeter indication.
5) With the Dolby Noise Reduction Switch at ON, adjust semi-fixed resistor VR4 (50 kB) shown in Fig. 18 to obtain a −20 dBm level at center terminal of Rec Level Volume.
6) Disconnect Test Point TP2 from ground and adjust semi-fixed resistor VR5 (5 kB) shown in Fig. 22 to obtain a −22 dBm level at center terminal of Rec Level Volume.

## 4. PLAYBACK DOLBY NOISE REDUCTION AMPLIFIER ADJUSTMENT

(Refer to Fig. 22)

1) Set Monitor Switch to "TAPE" and Tape Selector Switch to LOW NOISE.
2) Ground Test Point TP1 and turn adjustment semi-fixed resistors VR2 (50 kB), and VR3 (5 kB) as far as they will go in the direction of the arrow mark.
3) Set deck to playback mode.
4) Supply a 5 kHz signal to terminal (13) shown in Fig. 18 and obtain a −20 dBm line output level.
5) Set the Dolby Noise Reduction Switch to ON and adjust semi-fixed resistor VR3 (5 kB) to obtain a −30.5 dBm line output level.
6) Disconnect Test Point TP1 from ground and adjust semi-fixed resistor VR3 (5 kB) to obtain a −28.5 dBm line output level.

Noise reduction circuit made under license from Dolby Laboratories Inc. The word 'DOLBY' and the Double-D symbol are trademarks of Dolby Laboratories Inc.

# VIII. DC RESISTANCE OF VARIOUS COILS

| Part | Designation | DC Resistance |
|---|---|---|
| Main Motor | SCM-700 | Between YLW-BLU 210 ohms<br>Between YLW-RED 197 ohms<br>Between RED-BLU 190 ohms<br>Pick-up coil 670 ohms |
| Play Solenoid | 1660THT2 | 700 ohms ±10% |
| Relay | MTS-2 | 1,000 ohms ±10% |
| Relay | LC1-C-JT | 1,140 ohms ±10% |
| Headphone Output Transformer | N19-349S | Primary 160 ohms ±15%<br>Secondary 0.64 ohms ±15% |
| Oscillator Coil | OT-925 | Between 1–3 0.3 ohms<br>Between 4–6 1.5 ohms<br>Between 7–9 6.1 ohms |
| Recording, Playback Combination Head | PR4-2 | Recording 22 ohms ±5%<br>Playback 250 ohms ±5% |
| Erase Head | E4-165 | 2.5 ohms |

Chart 2

# IX. CLASSIFICATION OF VARIOUS P.C BOARDS

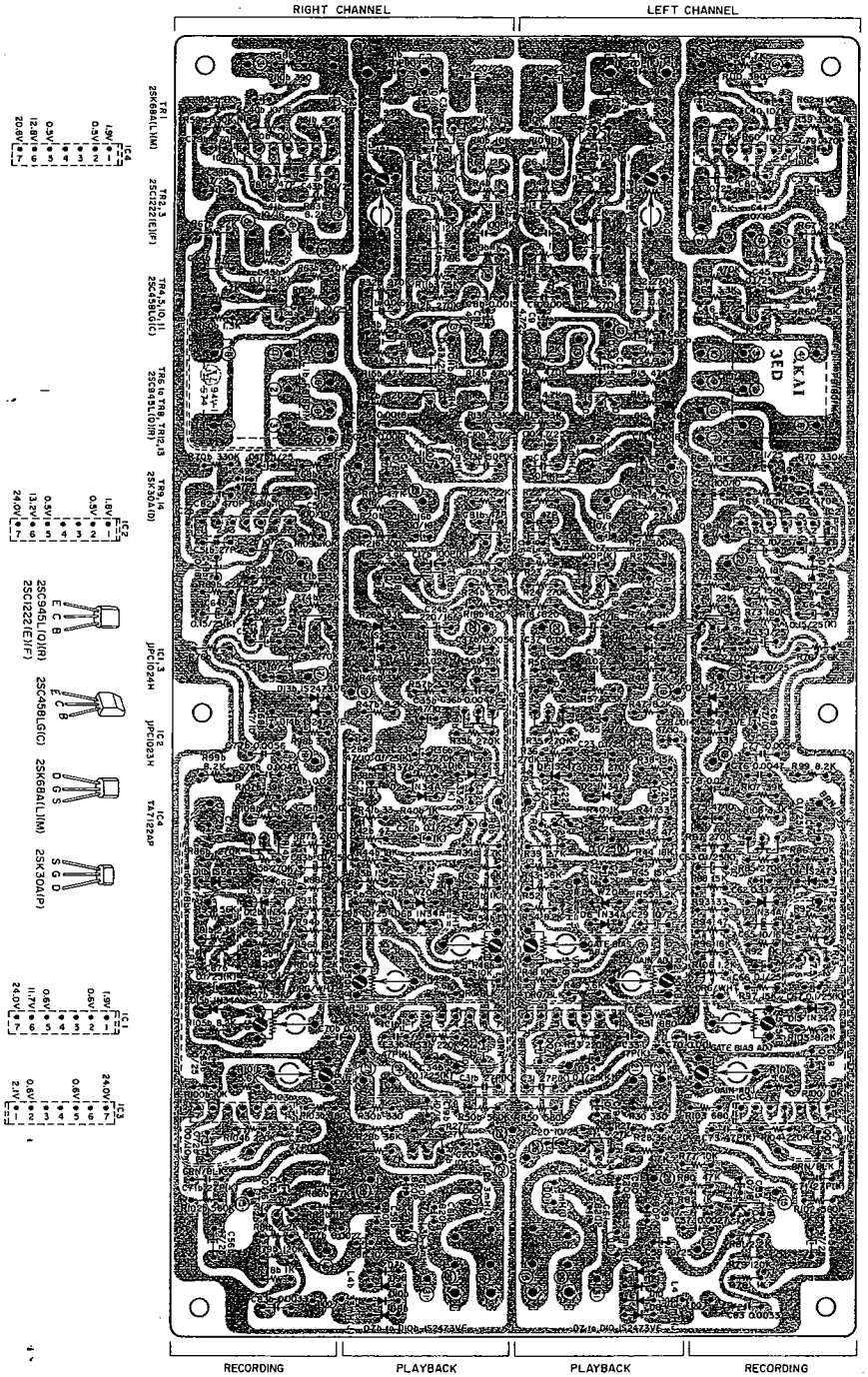
## 1. RELATION OF VARIOUS P.C BOARDS TITLE AND NUMBER

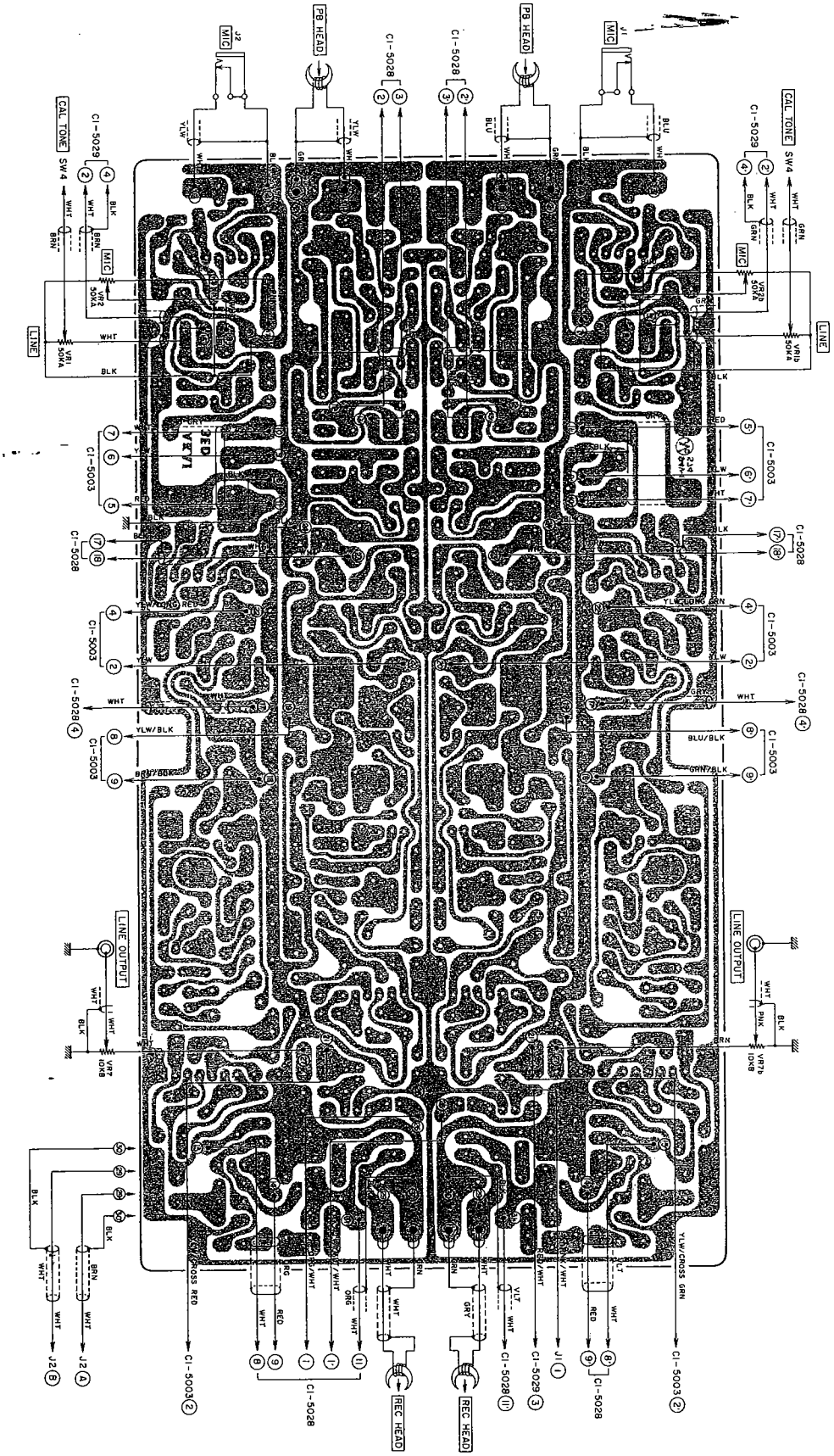
| P.C Board Title | P.C Board Number |
|---|---|
| Pre Amp P.C Board | CA-5205 |
| Power Supply & OSC P.C Board | CI-5030 |
| Servo P.C Board | CB-2025 |
| System Control P.C Board | CB-5004 |
| Touch Switch P.C Board | CI-2012 |
| Repeat Switch P.C Board | CI-5036 |
| Stop Detection P.C Board | CB-2026 |
| Noise Filter P.C Board | CB-2027 |
| Switch P.C Board | CI-5029 |
| Monitor Switch P.C Board | CI-5003 |
| Equalizer P.C Board | CI-5028 |
| Peak Switch P.C Board | CI-5005 |
| Door Switch P.C Board | CI-5026 |
| Door Switch P.C Board | CI-5045 |
| Protection P.C Board | CB-5028 |
| Lamp P.C Board | CA-2064 |

Chart 3

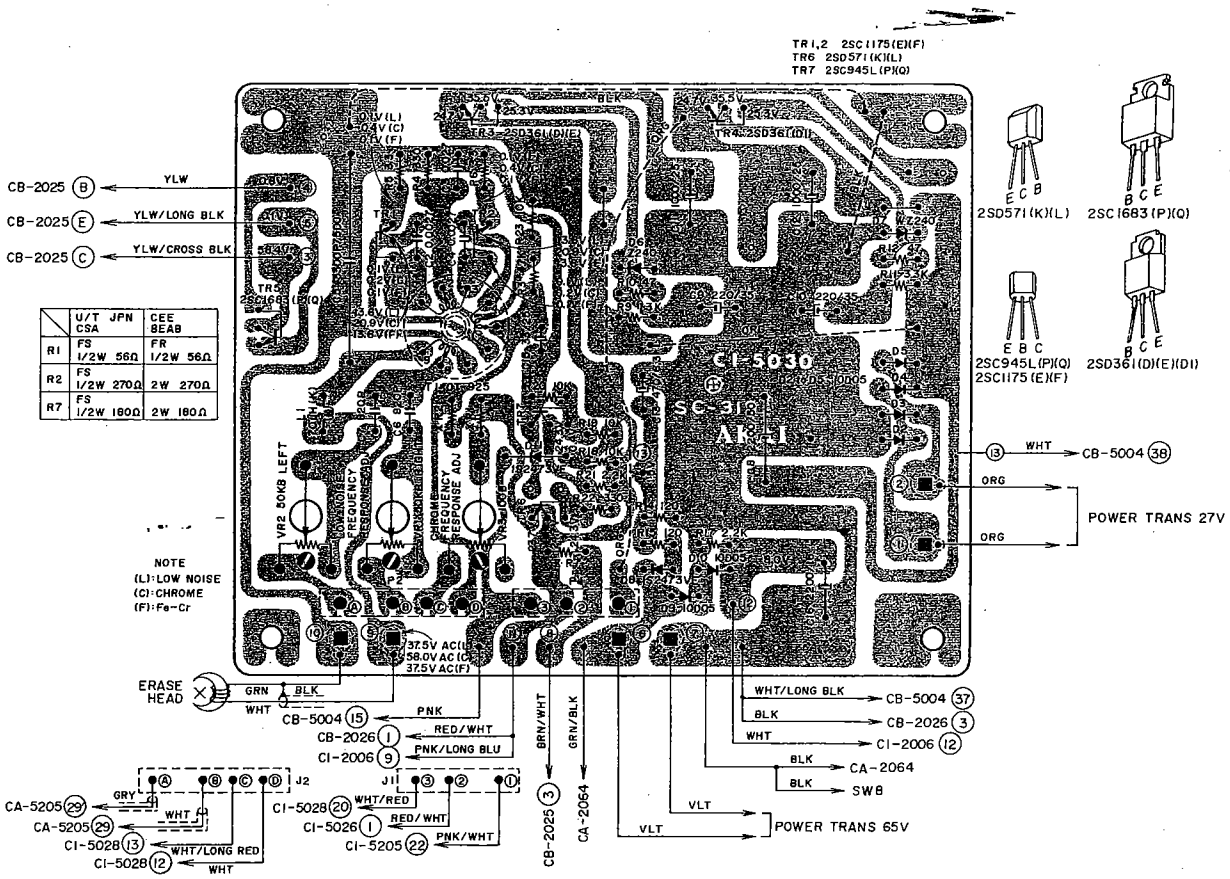
## 2. COMPOSITION OF VARIOUS P.C BOARDS

### 1) PRE AMP P.C BOARD CA-5025



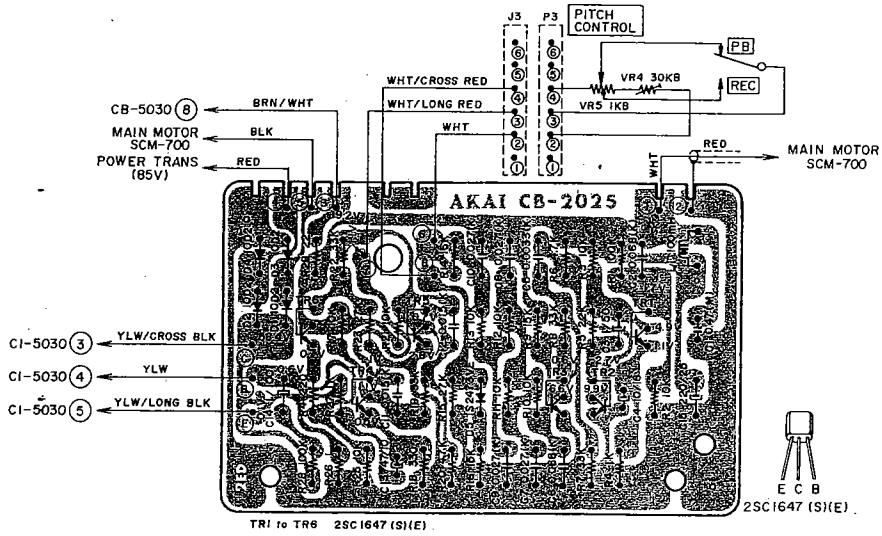

J2 MIC
PB HEAD
CI-5028
J1 MIC
CAL TONE SW4
CI-5029
LINE
VR1 50KA
VR2 50KA
VR3b 50KA
CI-5003
CI-5028
LINE OUTPUT
VR7 10KB
VR7b 10KB
REC HEAD
J2 (8)
J2 (4)
CI-5003 (2)
CI-5028 (11)
CI-5029 (3)
J1 (1)
CI-5028 (9)
CI-5003 (2)

## 2) POWER SUPPLY & OSC P.C BOARD CI-5030

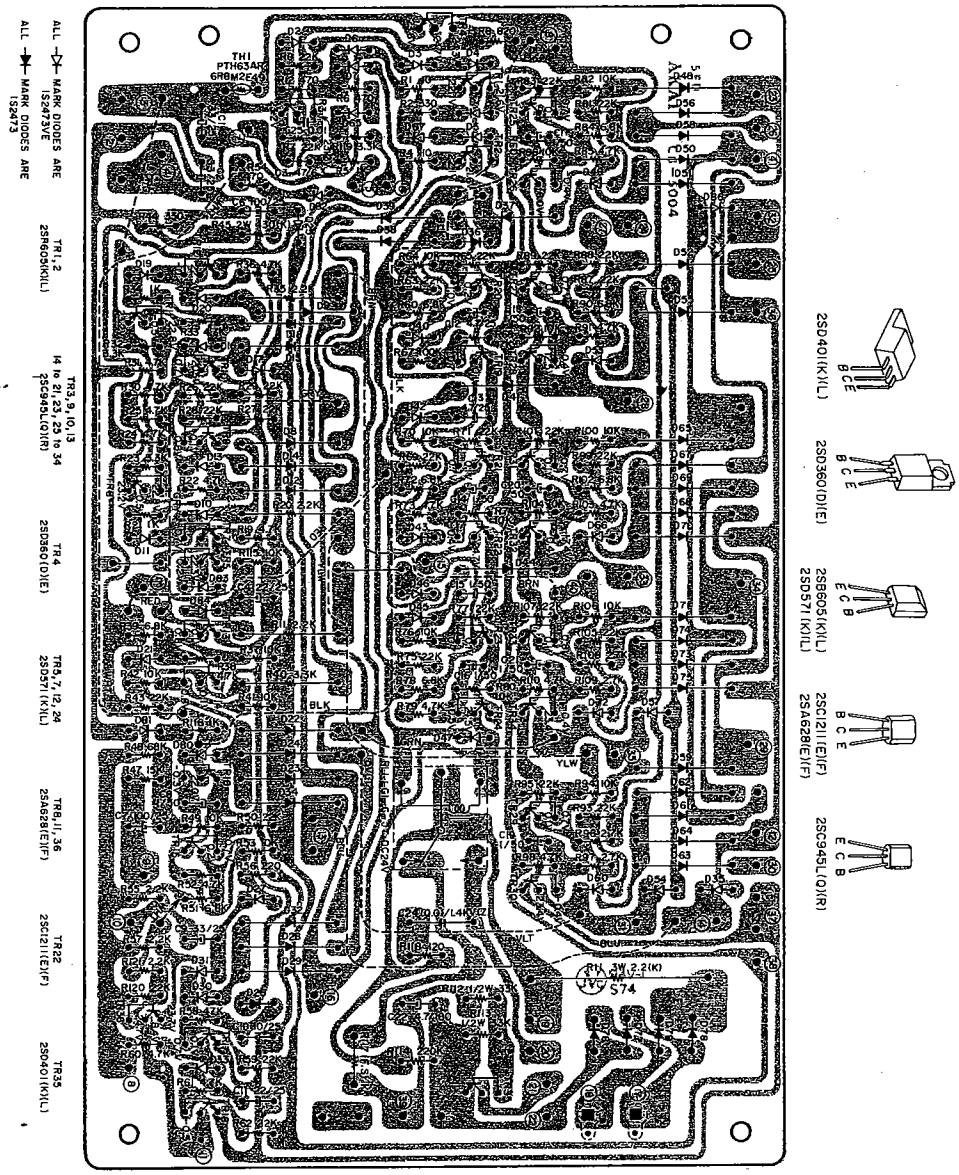


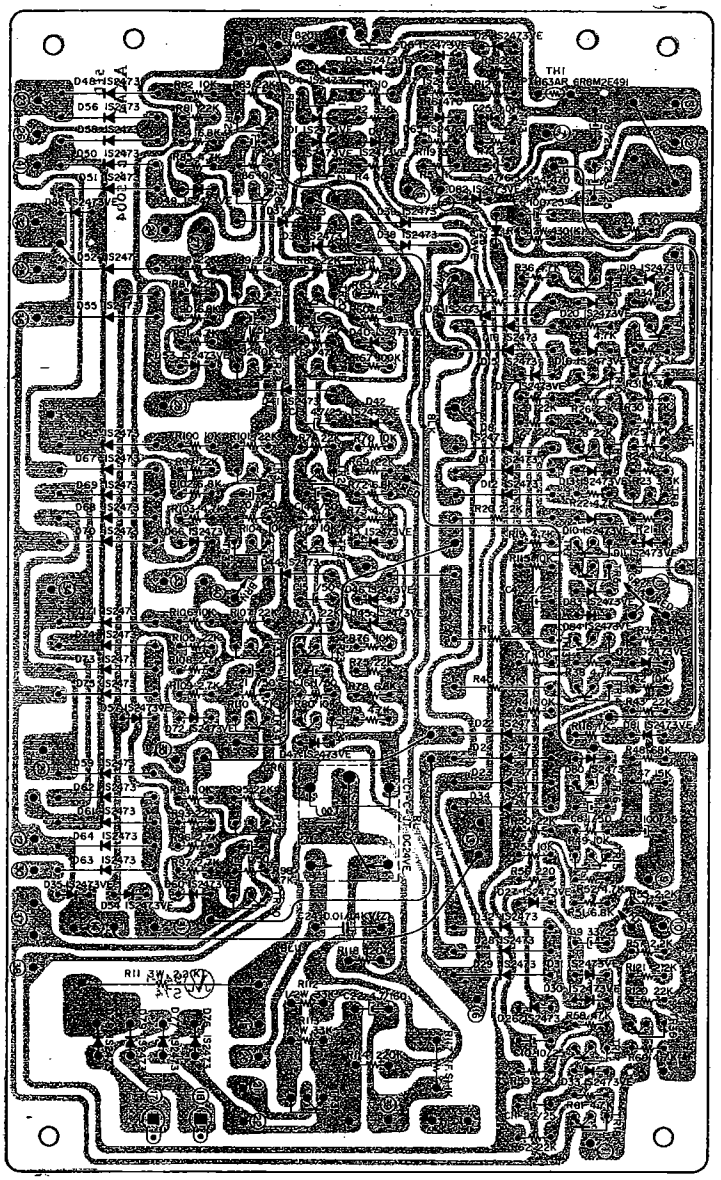

| | U/T JPN CSA | CEE BEAB |
|---|---|---|
| R1 | FS 1/2W 56Ω | FR 1/2W 56Ω |
| R2 | FS 1/2W 270Ω | 2W 270Ω |
| R7 | FS 1/2W 180Ω | 2W 180Ω |

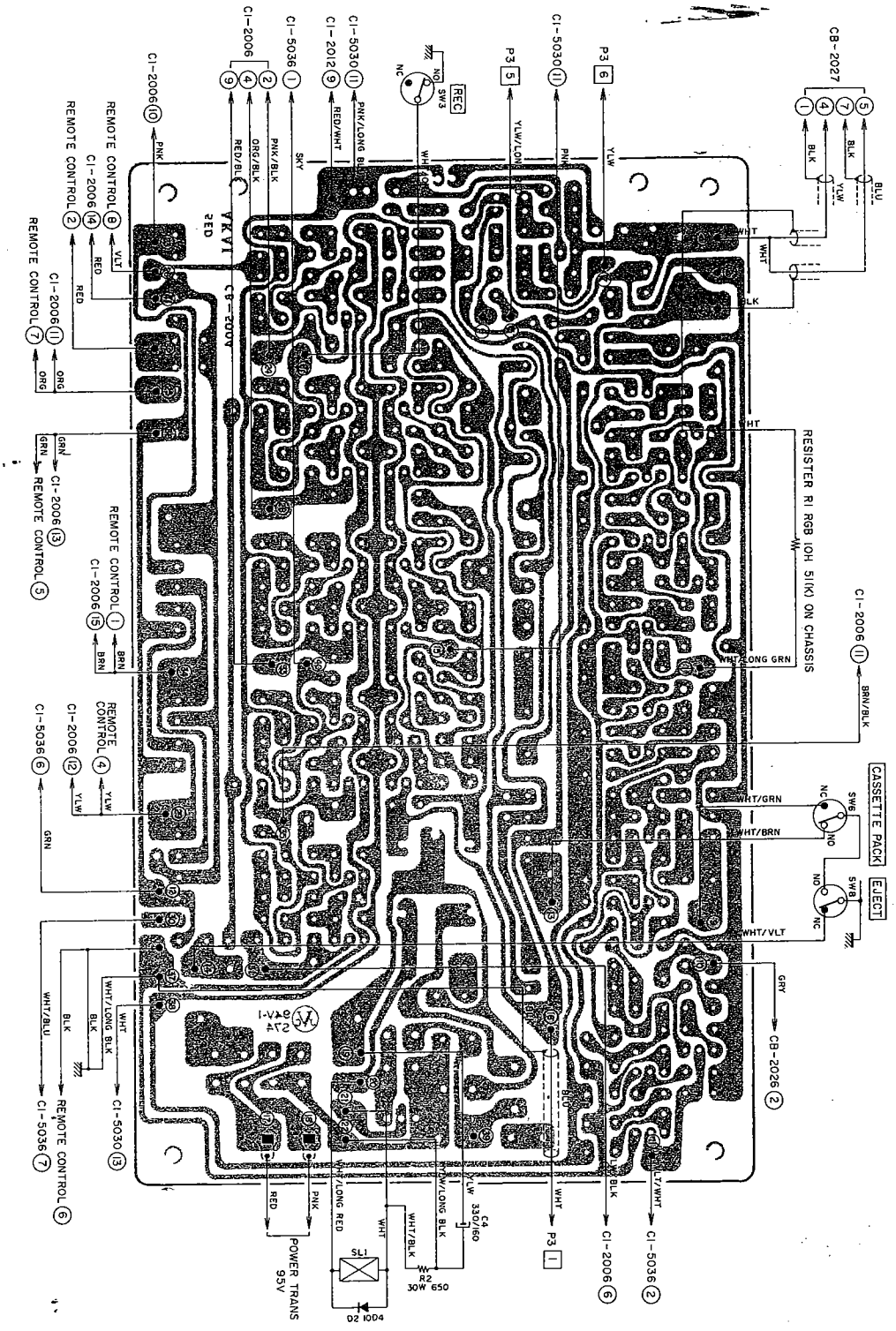
## 3) SERVO P.C BOARD CB-2025



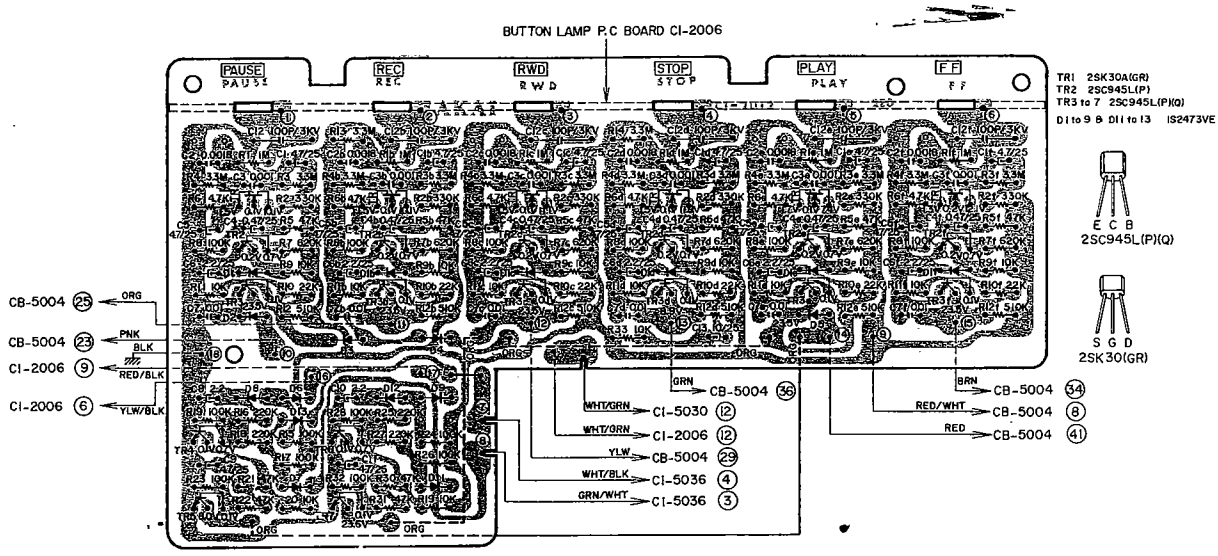
## 4) SYSTEM CONTROL P.C BOARD CB-5004



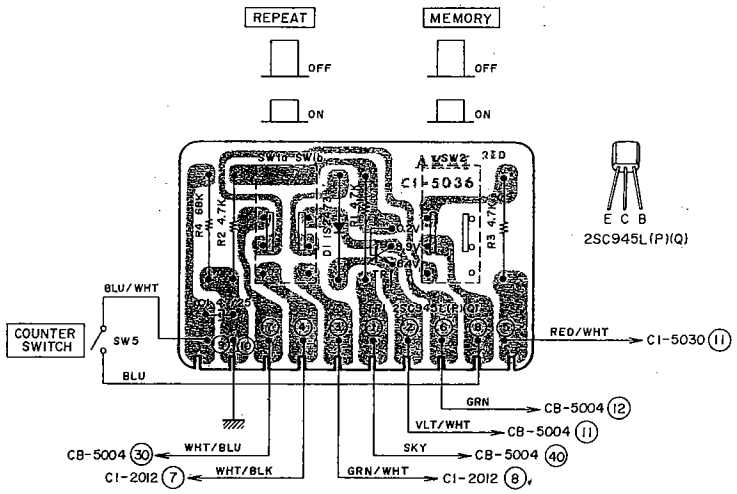

TR1, 2
2SB605(K)(L)
TR3,9,10,13,14 to 21,23, 25 to 34
2SC945L(Q)(R)
TR4
2SD360(D)(E)
TR5,7,12,24
2SD571(K)(L)
TR6,11,36
2SA628(E)(F)
TR22
2SC121(E)(F)
TR35
2SD401(K)(L)
2SD401(K)(L)
2SD360(D)(E)
2SB605(K)(L)
2SD571(K)(L)
2SC121(E)(F)
2SA628(E)(F)
2SC945L(Q)(R)


CB-2027
CI-5030 (11)
P3 6
P3 5
REC
SW3
CI-2006
CI-5036 (1)
CI-2012 (9)
CI-5030 (11)
CI-2006 (10)
REMOTE CONTROL (8)
REMOTE CONTROL (2)
CI-2006 (14)
REMOTE CONTROL (7)
CI-2006 (11)
RESISTER R1 RGB 10H 5(K) ON CHASSIS
CI-2006 (11)
REMOTE CONTROL (3)
CI-2006 (13)
REMOTE CONTROL (1)
CI-2006 (15)
REMOTE CONTROL (4)
CI-2006 (12)
CI-5036 (6)
REMOTE CONTROL (5)
CASSETTE PACK
EJECT
SW8
CB-2026 (2)
CI-5030 (13)
REMOTE CONTROL (6)
CI-5036 (7)
POWER TRANS 95V
SL1
D2 1004
R2 30W 650
C4 330/60
P3 1
CI-2006 (6)
CI-5036 (2)

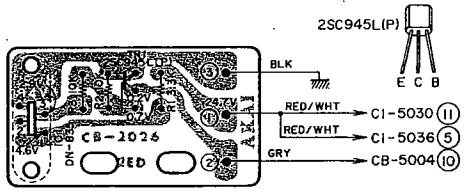
## 5) TOUCH SWITCH P.C BOARD CI-2012



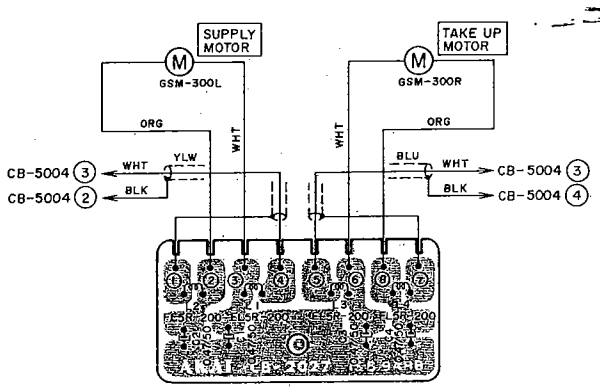

## 6) REPEAT SWITCH P.C BOARD CI-5036



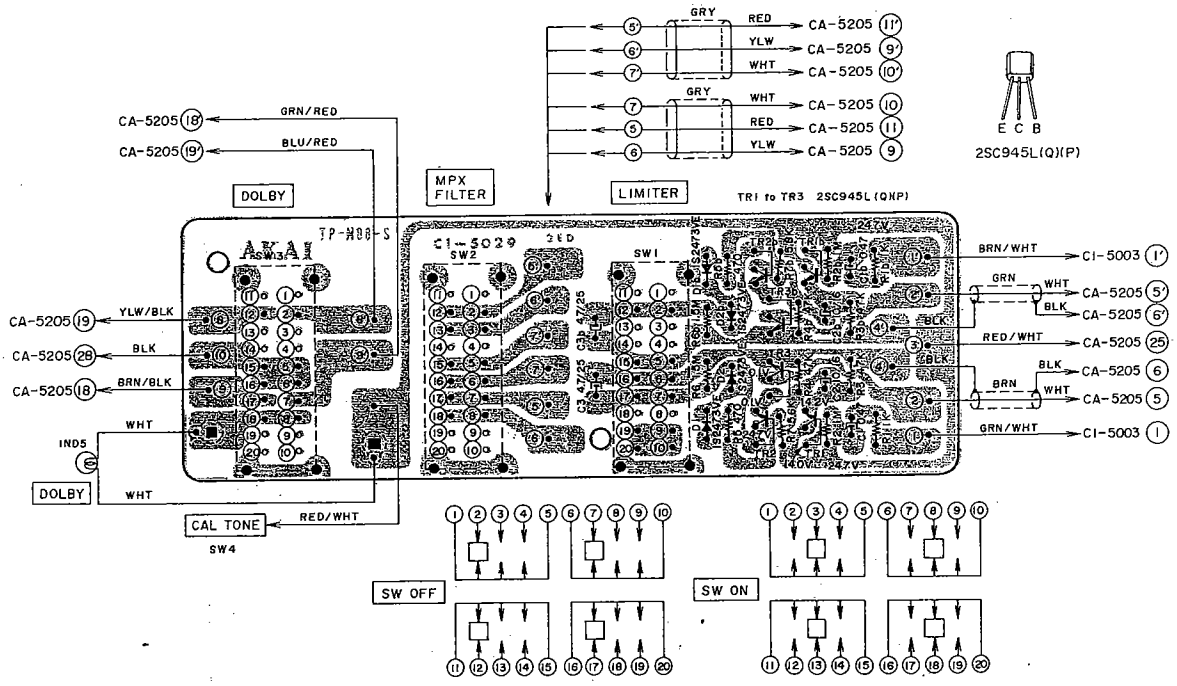

## 7) STOP DETECTION P.C BOARD CB-2026



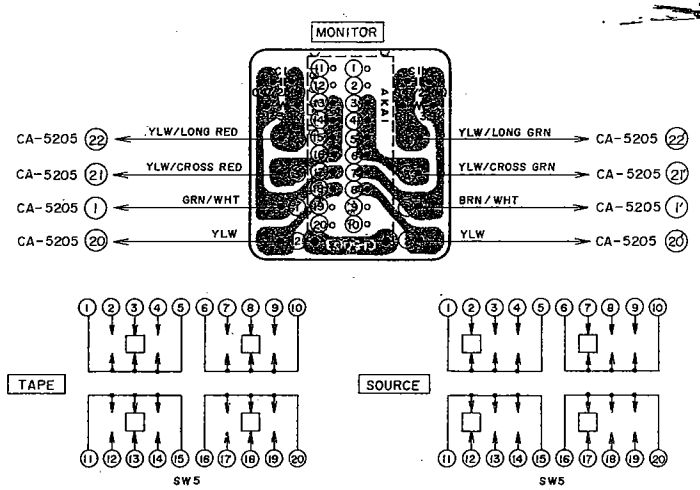
## 8) NOISE FILTER P.C BOARD CB-2027



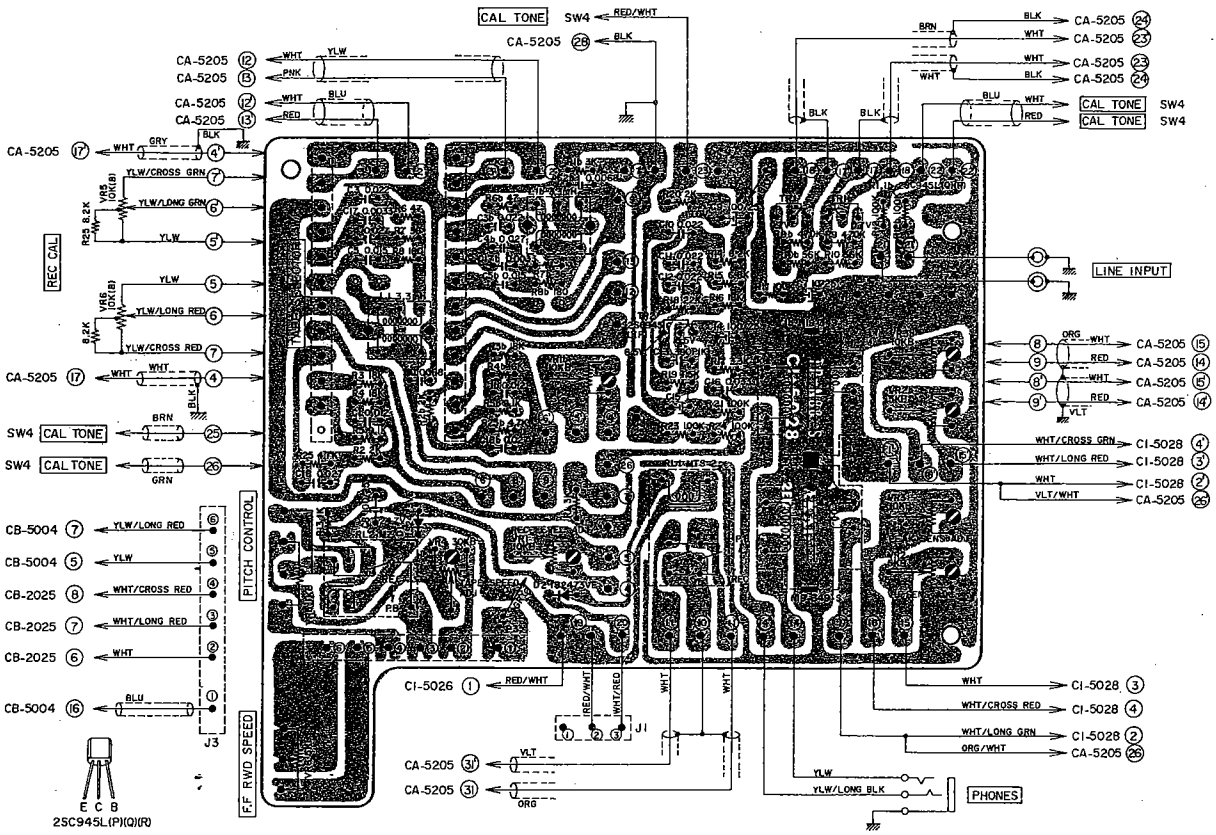

## 9) SWITCH P.C BOARD CI-5029



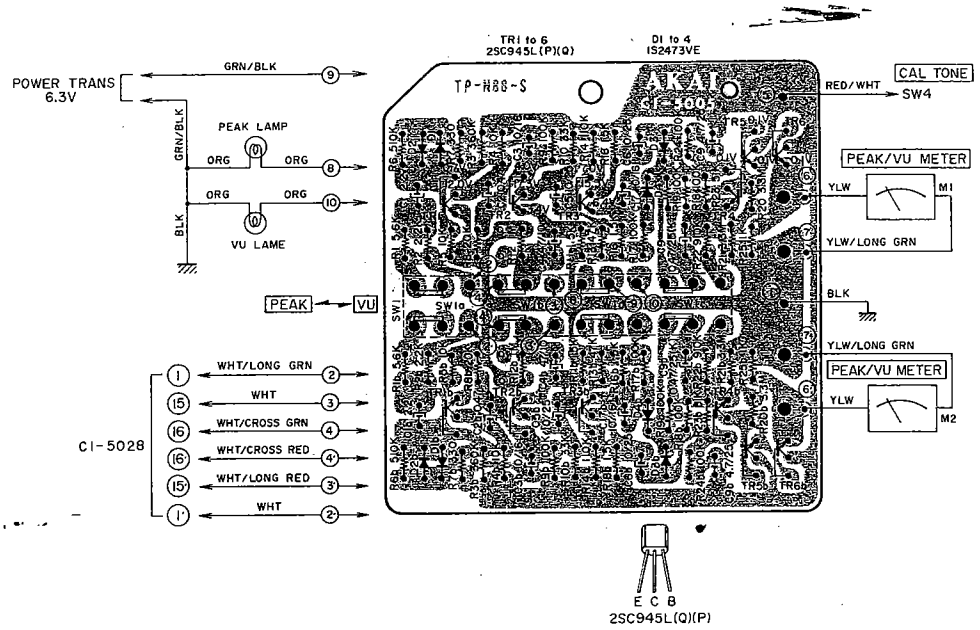
## 10) MONITOR SWITCH P.C BOARD CI-5003



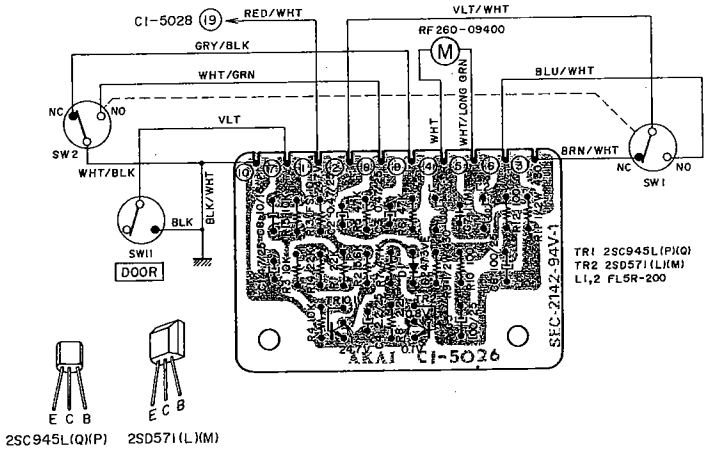

## 11) EQUALIZER P.C BOARD CI-5028



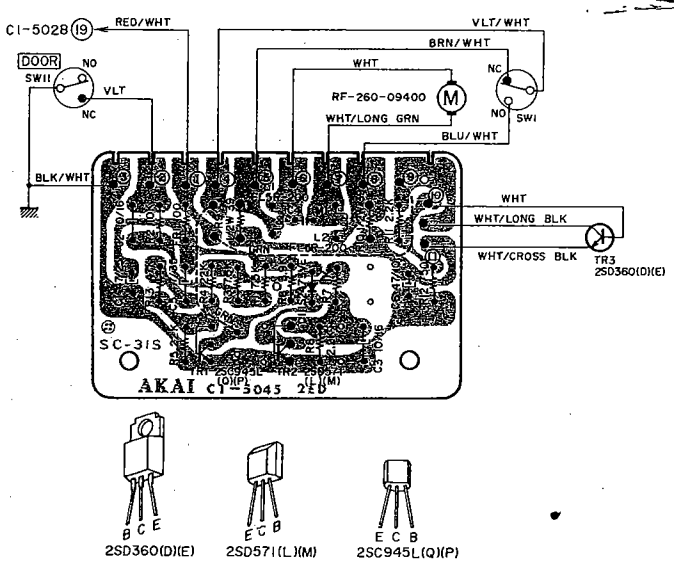
## 12) PEAK SWITCH P.C BOARD CI-5005

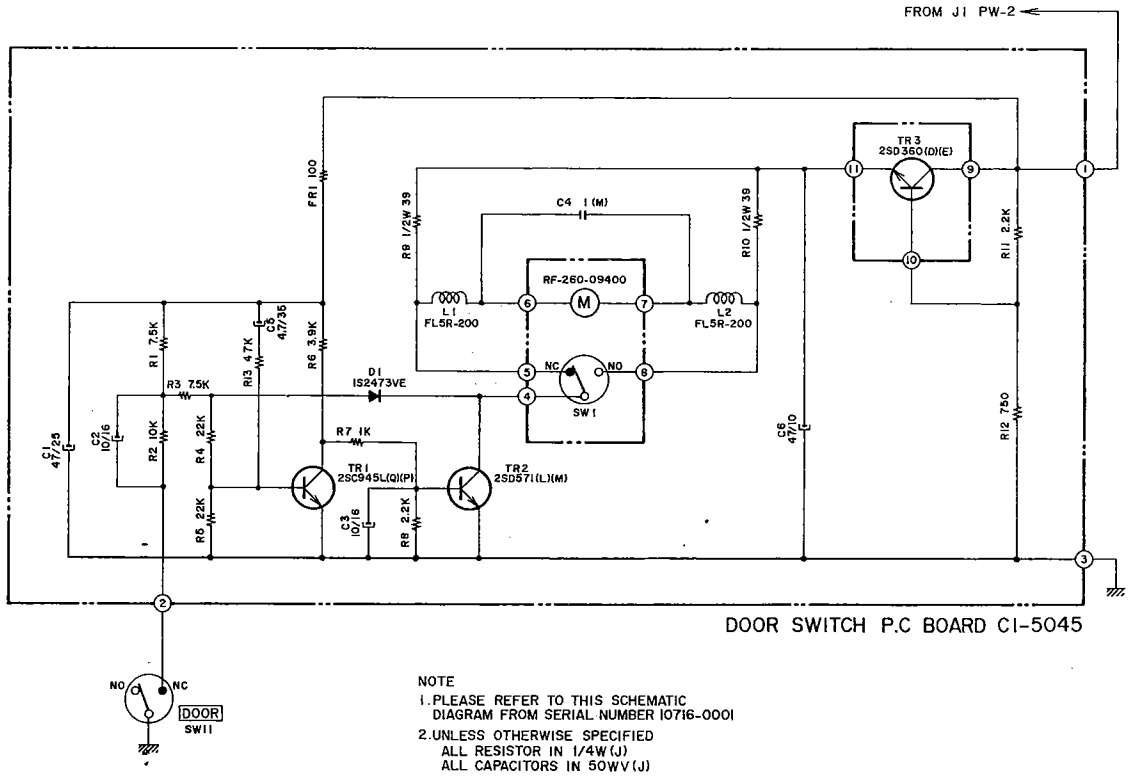



## 13) DOOR SWITCH P.C BOARD CI-5026



## 14) DOOR SWITCH P.C BOARD CI-5045

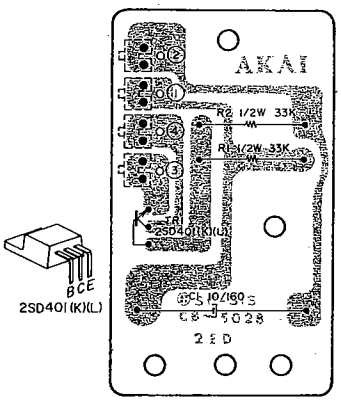


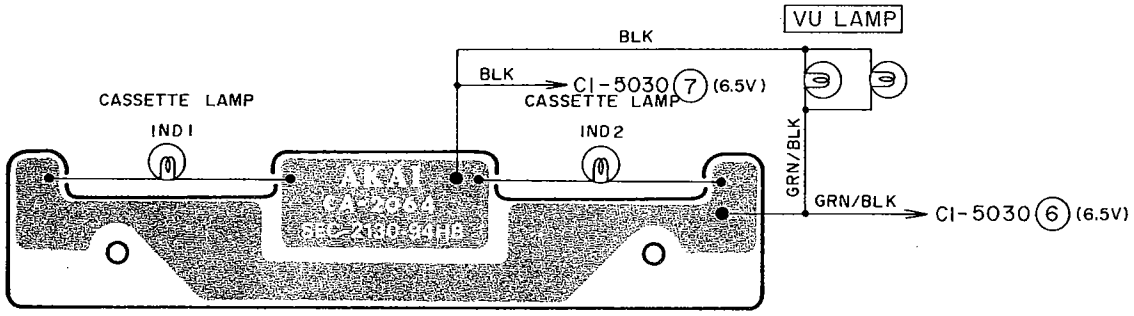

NOTE

1. PLEASE REFER TO THIS SCHEMATIC DIAGRAM FROM SERIAL NUMBER 10716-0001
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTOR IN 1/4W(J)
   ALL CAPACITORS IN 50WV(J)

## 15) PROTECTION P.C BOARD CB-5028




## 16) LAMP P.C BOARD CA-2064



SECTION 2

# PARTS LIST

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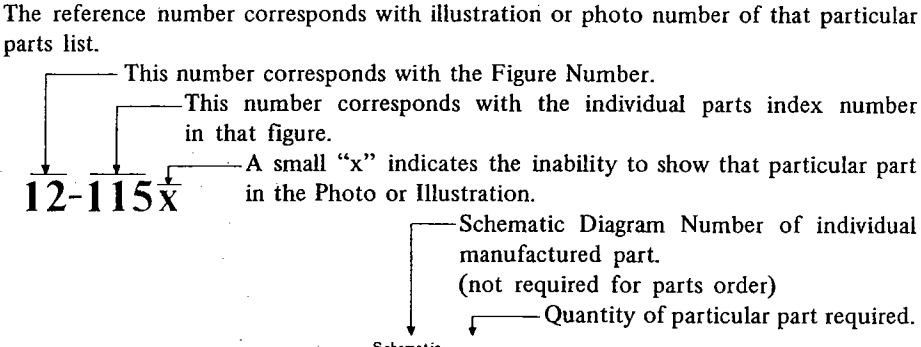
**Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.**

## HOW TO USE THIS PARTS LIST

1. This parts list is compiled by various individual blocks based on assembly process.
2. When ordering parts, please describe parts number, serial number, and model number in detail.
3. How to read List


The reference number corresponds with illustration or photo number of that particular parts list.
This number corresponds with the Figure Number.
This number corresponds with the individual parts index number in that figure.
A small "x" indicates the inability to show that particular part in the Photo or Illustration.
12-115x
Schematic Diagram Number of individual manufactured part. (not required for parts order)
Quantity of particular part required.

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | | **FLYWHEEL BLOCK #13** | | |
| 12-115x | 800425 | Flywheel Block Assy. Comp. | RDG #13 | 1 |
| 12-116 | 244506 | Flywheel Only | RD-233 | 1 |
| 12-117x | 244754 | Felt, Flywheel | RD-275 | 1 |
| 12-118 | 251324 | Main Metal Case | RD-236 | 1 |
| 12-119 | 253080 | Main Metal | RD-237 | 1 |

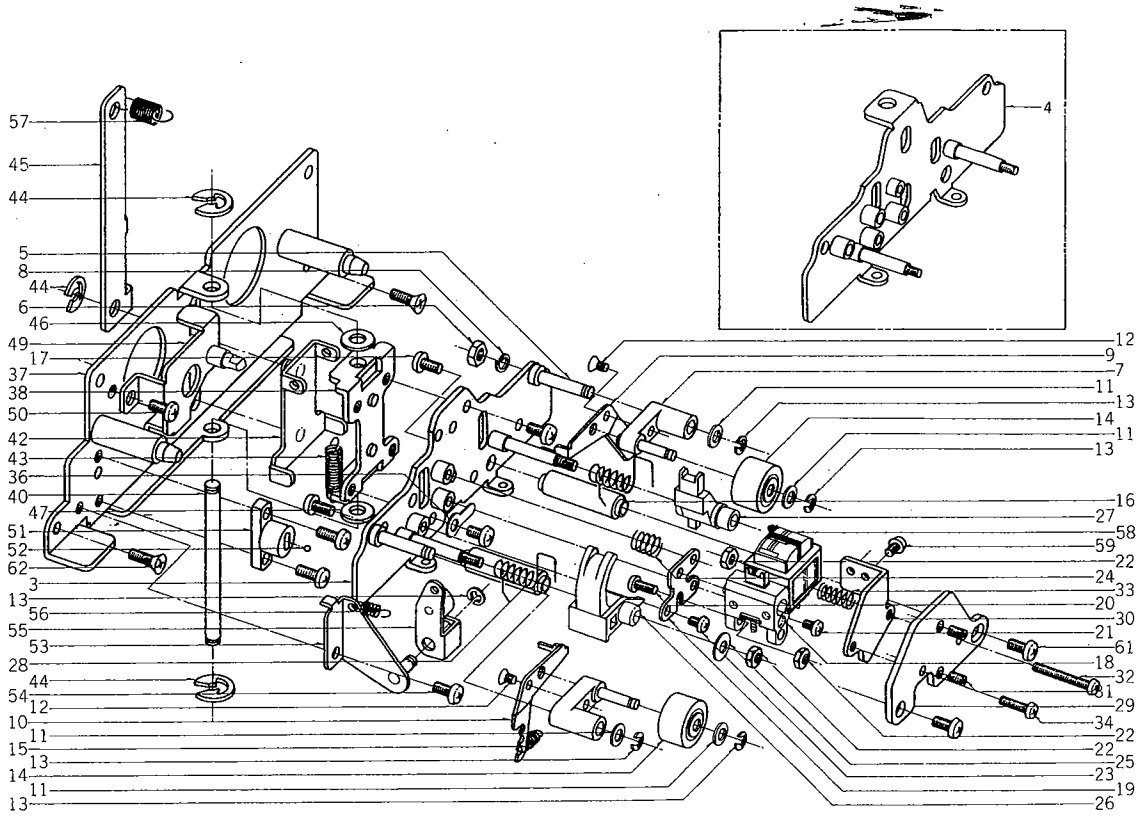
4. The symbol numbers shown on the P.C. Board list can be matched with the Composite Views of Components of the Schematic Diagram or Service Manual.
5. Please utilize separate "Common List for Service Parts" for Resistor Parts orders.
6. The shape of the parts and parts name, etc. can be confirmed by comparing them with the parts shown on the Electrical Parts Table of P.C. Board.
7. Both the kind of part and installation position can be determined by the Parts Number. To determine where a parts number is listed, utilize Parts Index at end of Parts List.
   It is necessary first of all to find the Parts Number. This can be accomplished by using the Reference Number listed at right of parts number in the Parts Index. (meaning of ref. no. outlined in Item 3 above).
8. Utilize separate "Price List for Parts" to determine unit price. The most simple method of finding parts Price is to utilize the reference number.

## RECOMMENDED SPARE PARTS LIST

| Parts No. | Description | Note |
|---|---|---|
| BA647190 | Lamp P.C Board Comp. CA-2064 | |
| BA681287 | Switch P.C Board Comp. CI-5029 | |
| BA670230 | Noise Filter P.C Board Comp. CB-2027 | Same as GXC-740D, GXC-760D |
| BA681175 | Servo P.C Board Comp. CI-2020 | |
| BA681210 | Syscon P.C Board Comp. CB-5004 | |
| BA681276 | Pre Amp P.C Board Comp. CA-5205 | |
| BA681254 | Touch Switch P.C Board Comp. CI-2012 | BA681254 |
| BA681221 | Power Supply & OSC P.C Board Comp. CI-5030 | |
| BA671207 | Protection P.C Board Comp. CB-5028 | CEE, CSA, JPN Models<br>Same as GXC-760D |
| BA670195 | Stop Detection P.C Board Comp. CB-2026 | |
| BA681333 | Monitor Switch P.C Board Comp. CI-5003 | |
| BA681344 | Peak Switch P.C Board Comp. CI-5005 | |
| BA681930 | Repeat Switch P.C Board Comp. CI-5036 | |
| BA681311 | Door Switch P.C Board Comp. CI-5026 | |
| BA681295 | EQ. P.C Board Comp. CI-5028 | |
| BC691301 | Case CI-6024 | |
| BC694708 | Dust Cover | |
| BD681118 | Front Panel Block Comp. CI-9723 | |
| BD681120 | Lid Panel Block Comp. | |
| BF667618 | Flywheel A CB-1018 | |
| BF669071 | Flywheel B CB-1018 | |
| BH211105 | Head Base Block Comp. | |
| BK681232 | Touch Button Block | |
| BM681164 | Main Motor SCM-700 | |
| BM670140 | Reel Motor GSM-300R | Right Reel Motor |
| BM670138 | Reel Motor GSM-300L | Left Reel Motor |
| BM692550 | Door Opening Motor RF-260-09400 | |
| BR670173 | Reel Table Block | |
| BT699287 | Power Transformer CIT-1 | Switchable model |
| BT694822 | Power Transformer CIT-4 | CEE model |
| BT694811 | Power Transformer CIT-3 | CSA model |
| BT694800 | Power Transformer CIT-2 | JPN model |
| BZ681186 | Door Key Block | |
| BZ681952 | Cassette Holder Block | |
| BZ681300 | Door Open Block | |
| BZ681131 | Selector Box Block | |
| EC412582 | MP Capacitor 6μF 150WV AC | |
| EF563692 | Fuse 1.5A 250V | |
| EF593706 | Fuse 500 mAT | |
| EF623103 | Fuse 1AT | |
| EF668610 | Fuse 250V 1.2A | |
| EF590692 | Fuse 1.2A 250V | |
| EL295312 | Lamp 8V 0.2A | |
| EM692583 | VU Meter KL-250L-8 | |
| EP616500 | Relay LC1-C-JT DC24V | |
| EP621808 | Relay MTS-2 | |
| EP537906 | Solenoid Plunger 1660THT2 | |

| Parts No. | Description | Note |
|---|---|---|
| ES477966 | Micro Switch SS-5GL | |
| ES494188 | Micro Switch SS-5GL-13 | |
| ES691457 | Micro Switch VU-SR | |
| ES691378 | Push Switch UEG-42L | |
| ES469541 | Push Switch TV-3 JB52 | |
| ES499972 | Push Switch JS-09 | |
| ES691323 | Tape Switch A5056BD-H12 | |
| ES419286 | Push Switch UEG-22DE | |
| ES557908 | Single Push Switch IFS-8U-48 | |
| ES691424 | Lever Switch SLK04251 | |
| ES691435 | Rotary Switch SRE-273 | |
| EV691391 | Volume VM10E076 1 kB | |
| EV691380 | Volume VM10R840 5 kB | |
| EV691402 | Volume VM10E050 5 kB | |
| EV691468 | Volume VJ10R670 50 kA | |
| EV691470 | Co-axial 2-throw Volume GJ70R519 | |
| EZ535432 | Click Gear TW-5018 | |
| HE636963 | Erase Head E4-165 | Same as GXC-325D, GXC-740D, GXC-760D |
| HP671174 | REC, PB Combination Head PR4-2 | Same as GXC-325D, GXC-740D, GXC-760D |
| MB669036 | Capstan Belt CB-1034 | |
| MB690390 | Counter Belt CI-1014 | |
| MC233021 | Counter SMP-390-86 | |
| MH691198 | Damping Pin CI-6010 | |
| MP612628 | Pinch Roller | |
| MV522235 | Steel Ball | |
| SK634410 | Push Button Knob J | |
| SK631304 | Push Button Knob I | |
| SK691312 | Dolby Knob CI-6027 | |
| SK691288 | Selector Knob CI-6020 | |
| SK691290 | Adjustment Knob CI-6021 | |
| SK694710 | Knob 1 (Rec Level) CI-6022 | |
| SK694721 | Knob 2 (Output) CI-6023 | |
| SK665223 | Memory Cap A AA-5521 | |
| TC691187 | Cylinder CI-6009 | |
| ZG535454 | Click Gear TW-5020 | |
| ZS691277 | Panel Screw CI-6019 | |
| ZW691266 | Panel Washer CI-6018 | |

# 1. ILLUSTRATION OF HEAD BASE/SUB FRAME BLOCK

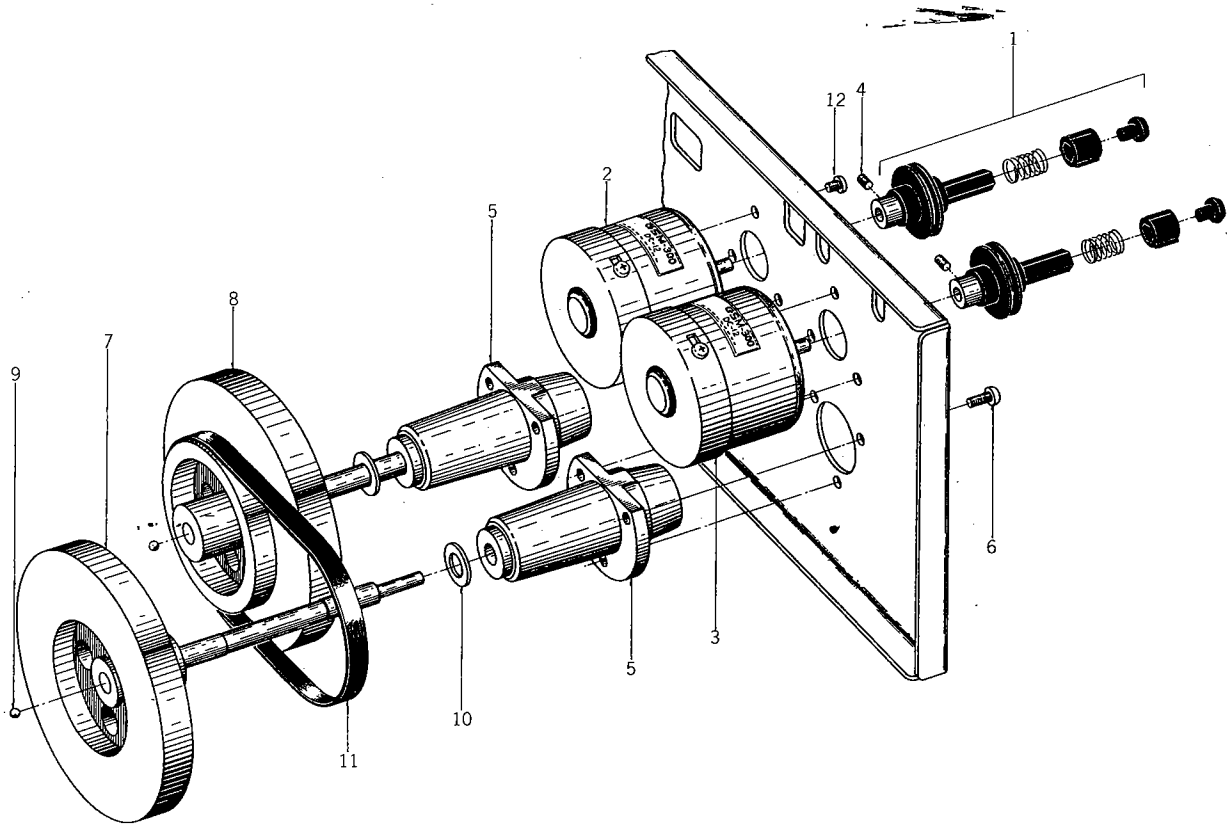



## 1) HEAD BASE/SUB FRAME BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | | **HEAD BASE BLOCK** | | |
| 1-1x | BH211105 | Head Base Block Comp. (Old) | CA2,CB,CI | 1 |
| 1-2x | BH272338 | Head Base Block Comp. (New) | CB,CI | 1 |
| 1-3 | HZ227158 | Head Base D, w/base & stud (Old) | CA-0018 | 1 |
| 1-4 | HZ236834 | Head Base F, w/base & stud (New) | CA-0020 | 1 |
| 1-5 | MS227136 | PW Arm Shaft B | CA-0017 | 2 |
| 1-6 | ZW273756 | Nut M3, #1 | | 2 |
| 1-7 | TC645063 | PW Arm, w/shaft | CA-0004 | 2 |
| 1-8 | ZW273745 | Spring Washer M3 | | 2 |
| 1-9 | HZ641621 | Arm A | CA-0006 | 1 |
| 1-10 | TC641632 | Arm B | CA-0006 | 1 |
| 1-11 | ZW364364 | Washer (Polyslider) D3.1x4.8x0.25t | | 4 |
| 1-12 | ZS524812 | Screw, countersunk head 2x4 | | 2 |
| 1-13 | ZW270088 | 'E' Ring 1.9M | 6-1-9 | 5 |
| 1-14 | MP612628 | Pinch Roller (ゴム) | CW-0010 | 2 |
| 1-15 | ZG644411 | PW Arm Spring (Old) | CA-0009 | 2 |
| 1-16 | HZ644400 | Head Hanger Post | CA-0007 | 2 |
| 1-17 | ZS379405 | Screw, binding head 3x6 | | 4 |
| 1-18 | HE636963 | ERASE HEAD E4-165 | CW,CA2,CI,CB | 1 |
| 1-19 | HZ227103 | Erase Head Plate B | CA-0213 | 1 |
| 1-20 | ZS464692 | Screw, binding head 2.3x6 | | 1 |
| 1-21 | ZS477876 | Screw, pan head 2x3 | | 2 |
| 1-22 | ZW485728 | Nut M2.3 | | 4 |
| 1-23 | ZS608106 | Screw, pan head 2x6 | | 1 |
| 1-24 | ZG227114 | EH Adjust Spring | CA-0214 | 1 |
| 1-25 | ZW273666 | Spring Washer M2.3 | | 1 |
| 1-26 | MS659913 | Tape Guide B | CA-0208 | 1 |
| 1-27 | MS659902 | Tape Guide | CA-0207 | 1 |
| 1-28 | ZG659880 | Tape Guide Spring | CA-0205 | 2 |
| 1-29 | HZ669892 | Head Hanger B | CA-0201 | 1 |
| 1-30 | HZ669903 | Head Mt. Parts | CA-0203 | 1 |
| 1-31 | ZS356804 | Set Screw, hexagon socket 3x4 (CUP/P.) | | 2 |
| 1-32 | ZS303625 | Screw, pan head 2.3x16 | | 1 |
| 1-33 | ZG465636 | Angle Adjust Spring | CG-0029 | 1 |
| 1-34 | ZS391522 | Screw, pan head 2.3x8 | | 1 |
| 1-35x | ZW562476 | Earth Lug M3 (Old) | | 1 |
| 1-36 | ZW273881 | Earth Lug M4 (New) | | 1 |
| | | **SUB FRAME BLOCK** | | |
| 1-37 | TC668092 | Sub Frame, w/pin | CB-0001 | 1 |
| 1-38 | TC667416 | Head Table Guide (Old) | CB-0002 | 1 |
| 1-39x | MS667473 | Guide Shaft B (Old) | CB-0007 | 1 |
| 1-40 | MS644872 | Guide Shaft (New) | CA-2012 | 1 |
| 1-41x | HZ667427 | Head Base Slide (1) (Old) | CB-0003 | 1 |
| 1-42 | HZ260392 | Head Base Slide (2) (New) | CB-0010 | 1 |
| 1-43 | ZG542215 | Spring B | CZ-1011 | 2 |
| 1-44 | ZW290283 | 'U' Ring 2.85M | 6-1-1 | 4 |
| 1-45 | TC667451 | Play Lever Joint | CB-0006 | 1 |
| 1-46 | ZW450753 | Washer (Nylon) D4.2x9x1t | | 1 |
| 1-47 | ZW222388 | Washer (Rubber) | 24X-739 | 1 |
| 1-48x | ZW562476 | Earth Lug M3 | | 1 |
| 1-49 | TC667438 | Reference Table, w/pin | CB-0004 | 1 |
| 1-50 | ZS422076 | Screw, pan head 3x5 | | 4 |
| 1-51 | MS645153 | Ball Guide | CA-2013 | 1 |
| 1-52 | MV522235 | Steel Ball 3/32 inch | | 1 |
| 1-53 | MZ642104 | Arm Shaft Bracket, w/arm shaft | CA-2016 | 1 |
| 1-54 | ZS417216 | Screw, pan head 3x4 | | 1 |
| 1-55 | TC642115 | Pressure Roller Arm, w/roller & pin | CA-2018 | 1 |
| 1-56 | ZG569384 | Selector Spring | CP-1166 | 1 |
| 1-57 | ZG386335 | Stop Lever Spring | CS-3011 | 1 |
| 1-58 | HP671174 | REC/PB HEAD PR4-2 | CW1,CA2,CB,CI | 1 |
| 1-59 | ZS461395 | Screw, round head 2x3 | | 2 |
| 1-60x | EA669510 | PR4-1 Terminal P.C Board | CW-0045 | 1 |
| 1-61 | ZS379350 | Screw, pan head 3x6 | | 4 |
| 1-62 | ZS559056 | Screw, countersunk head 3x6 | | 4 |

**When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.**

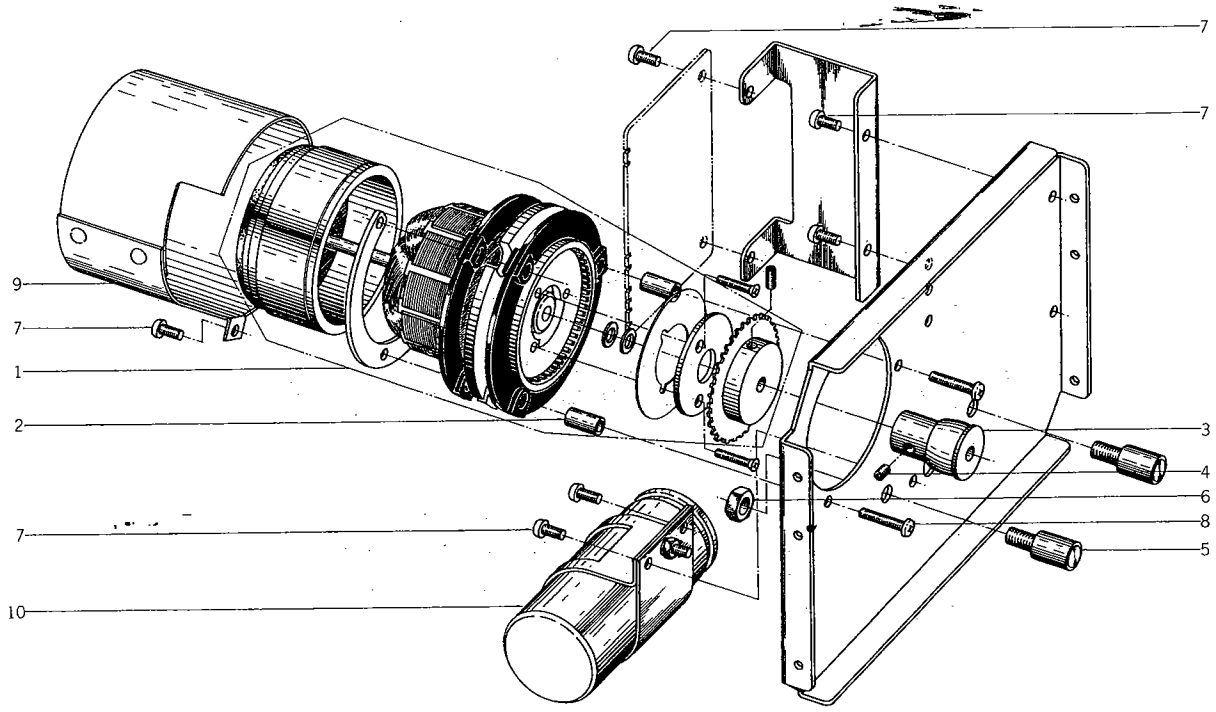
## 2. ILLUSTRATION OF REEL MOTOR/FLYWHEEL BLOCK




## 2) REEL MOTOR/FLYWHEEL BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| 2-1 | BR670173 | Reel Table Block Comp. | CB,CI | 2 |
| 2-2 | BM670138 | Motor Block Comp. (GSM-300L) | CB,CI | 1 |
| 2-3 | BM670140 | Motor Block Comp. (GSM-300R) | CB,CI | 1 |
| 2-4 | ZS499454 | Set Screw, hexagon socket 2.6x3 (CUP/P.) | | 2 |
| 2-5 | TC667620 | Main Case | CB-1020 | 2 |
| 2-6 | ZS379350 | Screw, pan head 3x6 | | 6 |
| 2-7 | BF667618 | Flywheel A, w/capstan shaft | CB-1018 | 1 |
| 2-8 | BF668790 | Flywheel B, w/capstan shaft | CB-1018 | 1 |
| 2-9 | MV666887 | Steel Ball D2.5 | | 2 |
| 2-10 | ZW597543 | Thrust Washer A (Nylon) 1t | KJ-7009 | 2 |
| 2-11 | MB669036 | Capstan Belt | CB-1034 | 1 |
| 2-12 | ZS432674 | Screw, pan head 3x3 | | 6 |

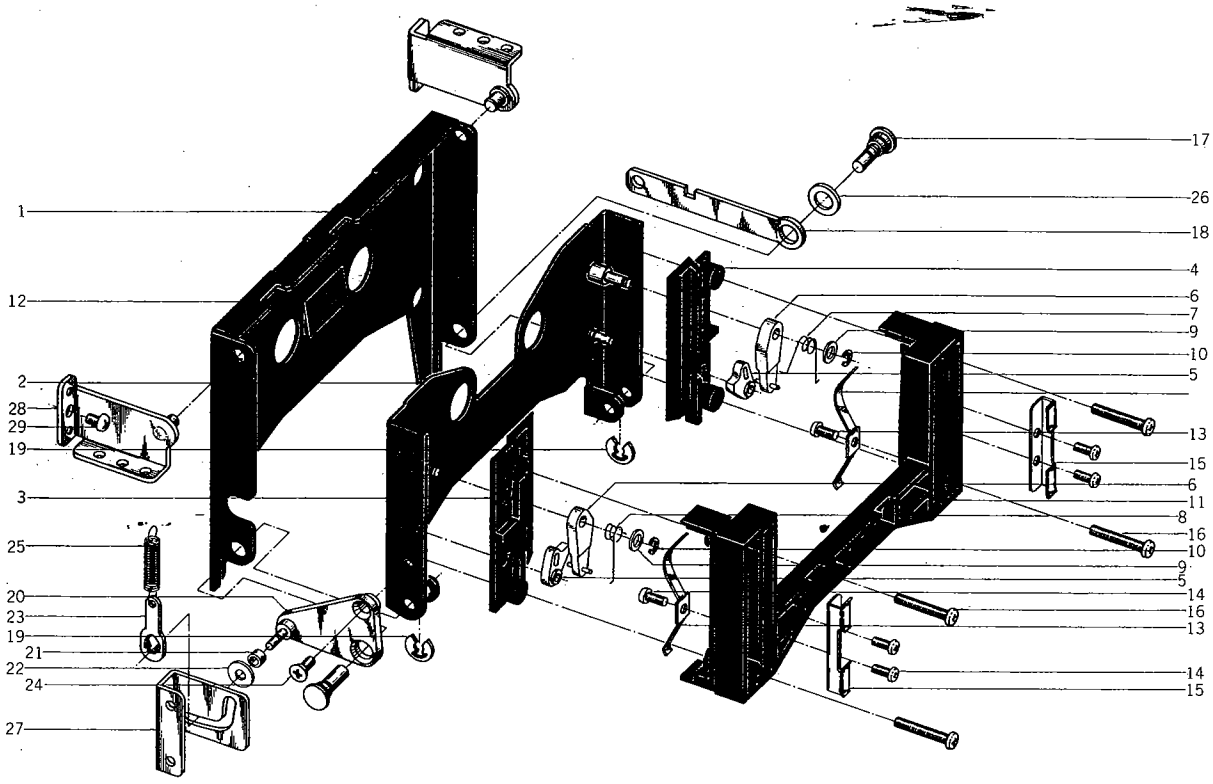
## 3. ILLUSTRATION OF MOTOR BLOCK




## 3) MOTOR BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| 3-1 | BM661241 | Motor (SCM-700) Block Comp. | CA2,CB,CI | 1 |
| 3-2 | MZ659981 | Stop Tube | CA-2205 | 3 |
| 3-3 | MR668068 | Motor Pulley | CB-7003 | 1 |
| 3-4 | ZS356804 | Set Screw, hexagon socket 3x4 (CUP/P.) | | 2 |
| 3-5 | MZ668057 | Capstan Support | CB-7002 | 2 |
| 3-6 | ZW668452 | Metal Nut | 7-1-64 | 2 |
| 3-7 | ZS325495 | Tapping Screw #2 3x6 (BR) | | 10 |
| 3-8 | ZS422965 | Screw, pan head 3x15 | | 3 |
| 3-9 | MZ668968 | Motor Shield | CB-7034 | 1 |
| 3-10 | EC412582 | MP/C. 6μF 150WV AC (Lug Type UNI/D.) | 24-9-55 | 1 |

## 4. ILLUSTRATION OF CASSETTE HOLDER BLOCK

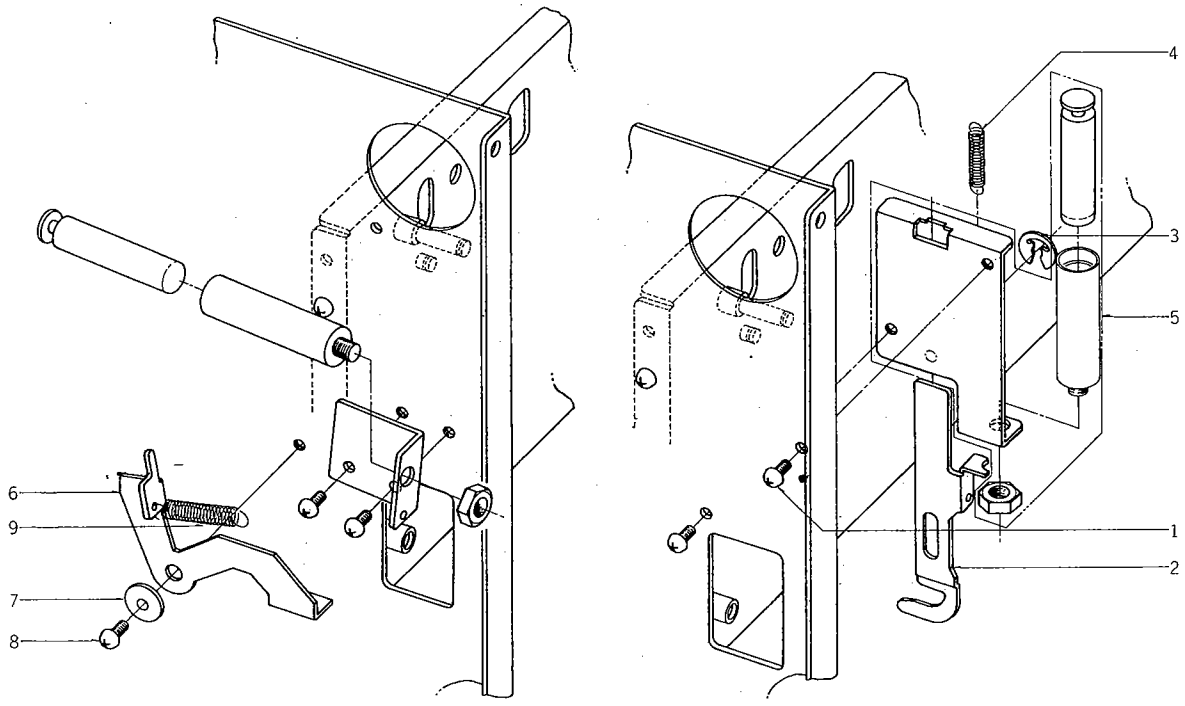



## 4) CASSETTE HOLDER BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| 4-1 | TC646931 | Trap | CA-2020 | 1 |
| 4-2 | TC646920 | Cassette Rack, w/detector lever pin A | CA-2023 | 1 |
| 4-3 | MS595563 | Cassette Guide L | CH-2007 | 1 |
| 4-4 | MS595552 | Cassette Guide R | CH-2006 | 1 |
| 4-5 | ML595574 | Detector Lever A | CH-2008 | 2 |
| 4-6 | ML595585 | Cassette Lever B | CH-2009 | 2 |
| 4-7 | ZG595618 | Spring A | CH-2004 | 1 |
| 4-8 | ZG595620 | Spring B | CH-2005 | 1 |
| 4-9 | ZW592391 | Washer (PBP) D3.3x6x0.3t | | 2 |
| 4-10 | ZW270088 | 'E' Ring 1.9M | 6-1-9 | 2 |
| 4-11 | TC647065 | Cassette Case | CA-2024 | 1 |
| 4-12 | TC645186 | Reflector | CA-2071 | 1 |
| 4-13 | ZG207257 | Sheet Spring B | CI-2019 | 2 |
| 4-14 | ZS669104 | Tapping Screw #2 2.3x6 pan head | | 6 |
| 4-15 | TC642148 | Lid Chuck | CA-2026 | 2 |
| 4-16 | ZS592402 | Screw, pan head 3x18 | | 4 |
| 4-17 | MH644916 | Hinge Pin | CA-2028 | 2 |
| 4-18 | TC666156 | Band Plate B | CB-2024 | 1 |
| 4-19 | ZW290283 | 'U' Ring 2.85M | 6-1-1 | 2 |
| 4-20 | ML699412 | Eject Guide Arm A, w/guide pin | CA-2027 | 1 |
| 4-21 | MR203804 | Roller | CB-1056 | 1 |
| 4-22 | ZW259503 | Washer (Nylon) D3.1x8x0.5t | | 1 |
| 4-23 | TC203815 | Spring Hook | CB-1057 | 1 |
| 4-24 | ZS414033 | Screw, countersunk head 3x8 | | 1 |
| 4-25 | ZG227452 | Spring D | 900-118 | 1 |
| 4-26 | ZW322110 | Washer (Nylon) D6.1x10x1t | | 1 |
| 4-27 | MS642374 | Eject Guide | CA-2066 | 1 |
| 4-28 | TC642071 | Pin Stand | CA-1099 | 2 |
| 4-29 | ZS325495 | Tapping Screw #2 3x6 (BR) | | 2 |

**When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.**

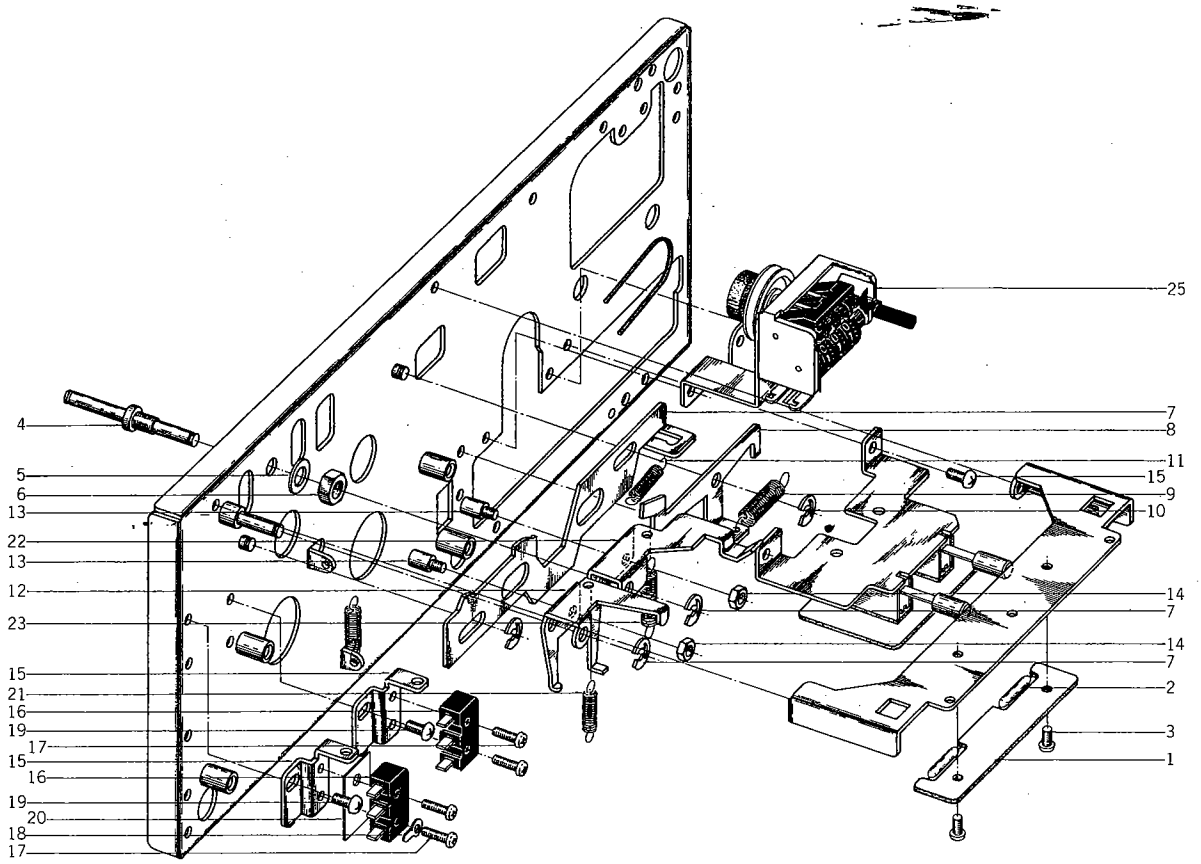
## 5. ILLUSTRATION OF DAMPER BLOCK




## 5) DAMPER BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| 5-1 | ZS379350 | Screw, pan head 3x6 | | 2 |
| 5-2 | ML203861 | Slide Lever | CB-1054 | 1 |
| 5-3 | ZW290283 | 'U' Ring 2.85M | 6-1-1 | 1 |
| 5-4 | ZG366761 | Spring, Slide D | RCC-1209 | 1 |
| 5-5 | BZ283847 | Cylinder Comp. | | 1 |
| 5-6 | TC691200 | Damper Connecting plate (Old) | CI-6011 | 1 |
| 5-7 | ZW542158 | Decorative Washer B (Old) | CZ-1005 | 1 |
| 5-8 | ZS325495 | Tapping Screw #2 3x6 (BR) (Old) | | 1 |
| 5-9 | ZG232121 | Tension Lever Spring | μH-143 | 1 |

## 6. ILLUSTRATION OF MECHA FRAME BLOCK (1)



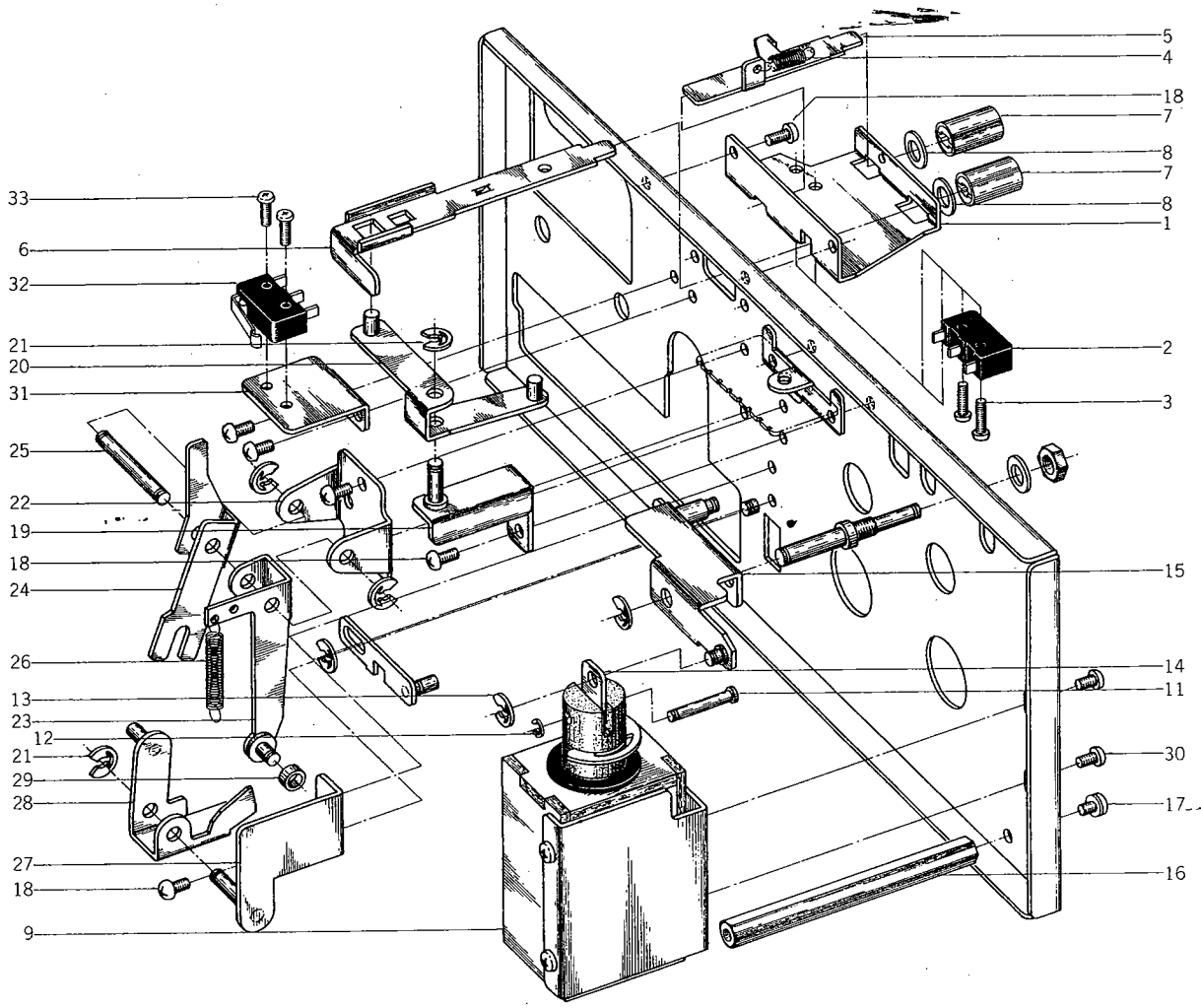

## 6) MECHA FRAME BLOCK (1)

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | **LAMP STAND BLOCK** | | | |
| 6-1 | EA647190 | Lamp P.C Board | CA-2064 | 1 |
| 6-2 | EL295312 | Lamp (L/T) 8V 0.2A | 28-2-8 | 4 |
| 6-3 | ZS417161 | Screw, pan head 2.3x4 | | 3 |
| | **MECHA. FRAME BLOCK** | | | |
| 6-4 | MH667506 | Head Table Arm Prop | CB-1004 | 1 |
| 6-5 | ZW675033 | Washer D5.1x10.3x0.8t | | 1 |
| 6-6 | ZW668452 | Metal Nut | 7-1-64 | 1 |
| 6-7 | TC693303 | Joint Slide | CI-1006 | 1 |
| 6-8 | TC690412 | Protector Plate | CI-1017 | 1 |
| 6-9 | ZG217337 | Belt Return Spring | 4TR-224 | 1 |
| 6-10 | ZW290294 | 'U' Ring 2.85M | 6-1-1B | 4 |
| 6-11 | ZG224796 | New Spring D | MH-142 | 1 |
| 6-12 | ML667462 | REC Lever | CB-1006 | 1 |
| 6-13 | TC667708 | Slide Pin | CB-1029 | 2 |
| 6-14 | ZW516611 | Nut M3 | | 2 |

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| 6-15 | TC667574 | M SW. Table A | CB-1012 | 2 |
| 6-16 | ES477966 | Micro SW. SS-5GL | 25-1-23 | 2 |
| 6-17 | ZS465298 | Screw, pan head 2.3x10 | | 4 |
| 6-18 | ZW273633 | Earth Lug M2.3 | | 1 |
| 6-19 | ZS325495 | Tapping Screw #2 3x6 (BR) | | 6 |
| 6-20 | EZ595653 | Insulator Plate | CH-1055 | 2 |
| 6-21 | ZG359638 | FF Idler Wheel A Spring | PX-146 | 1 |
| 6-22 | ML667528 | Detector Lever | CB-1007 | 1 |
| 6-23 | ZG431291 | Slide Spring | ED-B108 | 1 |
| 6-24x | ZW290294 | 'U' Ring 2.85M | 6-1-1B | 2 |
| 6-25 | MC666674 | Counter Part | 9-1-44 | 1 |
| 6-26 | MB690390 | Counter Belt | CI-1014 | 1 |
| 6-27x | ZS422076 | Screw, pan head 3x5 | | 2 |
| 6-28x | ZS325495 | Tapping Screw #2 3x6 (BR) | | 4 |

**When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.**

## 7. ILLUSTRATION OF MECHA FRAME BLOCK (2)




## 7) MECHA FRAME BLOCK (2)

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | **DOOR KEY BLOCK** | | | |
| 7-1 | TC693347 | Door Slot | CI-1012 | 1 |
| 7-2 | ES477966 | Micro SW. SS-5GL | 25-1-23 | 1 |
| 7-3 | ZS465298 | Screw, pan head 2.3x10 | | 2 |
| 7-4 | ZG365433 | Idler Tension Spring | RCC-1365 | 1 |
| 7-5 | TC693336 | Door Key | CI-1011 | 1 |
| 7-6 | TC667653 | Eject Key | CB-1024 | 1 |
| 7-7 | SK631304 | Push Button Knob I | 91-5051 | 2 |
| 7-8 | ZW259986 | Washer (Nylon) D5.1x10.3x1t | | 1 |
| | **PLUNGER BLOCK** | | | |
| 7-9 | EP537906 | Plunger Solenoid 1660THT2 | 44-1-54 | 1 |
| 7-10x | ED224550 | Silicon Diode 10D4 | 45-2-16 | 1 |
| 7-11 | MH533913 | Connecting Pin | TW-2010 | 1 |
| 7-12 | ZW270088 | 'E' Ring 1.9M | 6-1-9 | 1 |
| 7-13 | ZW270101 | 'E' Ring 3M | 6-1-9 | 1 |
| 7-14 | TC667945 | Plunger Joint | CB-2022 | 1 |
| 7-15 | ML667675 | Head Table Arm, w/arm pin A & B | CB-1026 | 1 |

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | **MECHA FRAME BLOCK** | | | |
| 7-16 | MH667517 | Motor Prop | CB-1005 | 3 |
| 7-17 | ZS369900 | Screw, pan head 3x8, w/washer | | 3 |
| 7-18 | ZS325495 | Tapping Screw #2 3x6 (BR) | | 12 |
| 7-19 | TC694697 | Eject Lever Table B, w/lever shaft | CB-1015 | 1 |
| 7-20 | ML693325 | Eject Lever D, w/reverse lever pin | CI-1009 | 1 |
| 7-21 | ZW290283 | 'U' Ring 2.85M | 6-1-1 | 5 |
| 7-22 | TC641700 | Eject Lever Pillow | CA-1038 | 1 |
| 7-23 | ML693281 | Spring Lever, w/S lever pin | CI-1004 | 1 |
| 7-24 | ML690232 | Cancellation Lever | CI-1002 | 1 |
| 7-25 | MH644646 | Eject Lever Pin | CA-1036 | 1 |
| 7-26 | ZG314818 | D Lever Spring | MR-114 | 1 |
| 7-27 | TC690221 | Lock Plate Table, w/wind lever 3 shaft | CI-1001 | 1 |
| 7-28 | MZ221916 | Lock Plate B, w/lid pin (2) | CB-1060 | 1 |
| 7-29 | MR221927 | Roller | CB-1059 | 1 |
| 7-30 | ZS422076 | Screw, pan head 3x5 | | 2 |
| 7-31 | TC667585 | M SW. Table B | CB-1013 | 1 |
| 7-32 | ES494188 | Micro SW. SS-5GL-13 | 25-1-25 | 1 |
| 7-33 | ZS487091 | Screw, pan head 2.3x8 | | 2 |

# 8. P.C BOARDS

## (1) PRE AMP P.C BOARD (CA-5205) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (1)-1 | BA681276 | Pre Amp. P.C Board Comp. (CA-5205) | 1 |
| (1)-IC1 | EI669655 | IC μPC1024H | 2 |
| (1)-IC2 | EI669666 | IC μPC1023H | 2 |
| (1)-IC3 | EI669655 | IC μPC1024H | 2 |
| (1)-IC4 | EI669712 | IC TA7122AP | 2 |
| (1)-TR1 | ET669633 | FET 2SK68A (L) (M) | 2 |
| (1)-TR2,3 | ET459810 | Transistor 2SC1222 (E) (F) | 4 |
| (1)-TR4,5 | ET234854 | Transistor 2SC458LG (C) | 4 |
| (1)-TR6to8 | ET398711 | Transistor 2SC945L (Q) (R) | 6 |
| (1)-TR9 | ET645917 | FET 2SK30A (D) | 2 |
| (1)-TR10,11 | ET234854 | Transistor 2SC458LG (C) | 4 |
| (1)-TR12,13 | ET398711 | Transistor 2SC945L (Q) (R) | 4 |
| (1)-TR14 | ET645917 | FET 2SK30A (D) | 2 |
| (1)-D1 | ED557447 | Silicon Diode 1S1588 | 2 |
| (1)-D2 | ED219464 | Germanium Diode 1N34A | 2 |
| (1)-D3,4 | ED560913 | Silicon Diode 1S2473VE | 4 |
| (1)-D5 | ED491130 | Zener Diode WZ085 | 2 |
| (1)-D6 | ED219464 | Germanium Diode 1N34A | 2 |
| (1)-D7to10 | ED560913 | Silicon Diode 1S2473VE | 8 |
| (1)-D11 | ED624903 | Silicon Diode 1S2473 | 2 |
| (1)-D12 | ED219464 | Germanium Diode 1N34A | 2 |
| (1)-D13,14 | ED560913 | Silicon Diode 1S2473VE | 4 |
| (1)-D15 | ED219464 | Germanium Diode 1N34A | 2 |
| (1)-L1 | EO496350 | Inductor 146LY 36 MH (J) | 2 |
| (1)-L2,3 | EO308395 | Ferri Inductor FL7H 3 MH (J) | 4 |
| (1)-L4 | EO368403 | Ferri Inductor FL9H 33 MH (J) | 2 |
| (1)-VR1 | EV523620 | Semi-fixed/Vol. V8K4-1 500 ohmsB | 2 |
| (1)-VR2 | EV464220 | Semi-fixed/Vol. V8K4-1 50 kB | 2 |
| (1)-VR3 | EV464207 | Semi-fixed/Vol. V8K4-1 5 kB | 2 |
| (1)-VR4 | EV464220 | Semi-fixed/Vol. V8K4-1 50 kB | 2 |
| (1)-VR5 | EV464207 | Semi-fixed/Vol. V8K4-1 5 kB | 2 |
| (1)-FL1 | EO669734 | MPX Filter FB1801M | 2 |
| (1)-2 | TC693628 | Pre Amp P.C Board Table I (CI-5032) | 1 |
| (1)-3 | ZS325495 | Tapping Screw #2 3x6 (BR) | 3 |
| | | **Capacitor, Vertical Type** | |
| (1)-C1 | EC516723 | Styrol 270PF (K) 50WV | 2 |
| (1)-C3 | EC572613 | Tantalum 10μF (M) 16WV (DTS Type) | 2 |
| (1)-C4 | EC516767 | Styrol 470PF (K) 50WV | 2 |
| (1)-C5 | EC572444 | Tantalum 47μF (M) 6.3WV (DTS Type) | 2 |
| (1)-C11 | EC604102 | Solid Aluminum 0.33μF (K) 25WV | 2 |
| (1)-C22 | EC604102 | Solid Aluminum 0.33μF (K) 25WV | 2 |
| (1)-C23 | EC619650 | Solid Aluminum 0.1μF (K) 25WV | 2 |
| (1)-C26,27 | EC619650 | Solid Aluminum 0.1μF (K) 25WV | 4 |
| (1)-C34 | EC619650 | Solid Aluminum 0.1μF (K) 25WV | 2 |
| (1)-C45 | EC619650 | Solid Aluminum 0.1μF (K) 25WV | 2 |
| (1)-C59 | EC516778 | Styrol 680PF (K) 50WV | 2 |
| (1)-C60,61 | EC623002 | Styrol 820PF (K) 50WV | 4 |
| (1)-C62 | EC604102 | Solid Aluminum 0.33μF (K) 25WV | 2 |
| (1)-C63 | EC619650 | Solid Aluminum 0.1μF (K) 25WV | 2 |
| (1)-C64 | EC662308 | Solid Aluminum 0.15μF (K) 25WV | 2 |
| (1)-C66,67 | EC619650 | Solid Aluminum 0.1μF (K) 25WV | 4 |
| (1)-C74 | EC619650 | Solid Aluminum 0.1μF (K) 25WV | 2 |
| (1)-C79 | EC516767 | Styrol 470PF (K) 50WV | 2 |
| (1)-C82 | EC516767 | Styrol 470PF (K) 50WV | 2 |
| (1)-C85 | EC676754 | Styrol 680PF (J) 50WV | 2 |

## (2) POWER SUPPLY & OSC P.C BOARD (CI-5030) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (2)-1 | BA681221 | Power Supply & OSC P.C Board (CI-5030) | 1 |
| (2)-2 | BA272417 | Power Supply & OSC P.C Board (CI-5030) (CEE) | 1 |
| (2)-TR1,2 | ET622080 | Transistor 2SC1175 (E) (F) | 2 |
| (2)-TR3 | ET537300 | Transistor 2SD361 (D) (E) | 1 |
| (2)-TR4 | ET699388 | Transistor 2SD361 (D1) | 1 |
| (2)-TR5 | ET635826 | Transistor 2SC1683 (P) (Q) | 1 |
| (2)-TR6 | ET666404 | Transistor 2SD571 (K) (L) | 1 |
| (2)-TR7 | ET639437 | Transistor 2SC945L (Q) (P) | 1 |
| (2)-D2to5 | ED494583 | Silicon Diode 10D05 | 4 |
| (2)-D6,7 | ED511918 | Zener Diode WZ-240 | 2 |
| (2)-D8 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (2)-D9,10 | ED494583 | Silicon Diode 10D05 | 2 |
| (2)-D11 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (2)-L1 | EO464668 | Ferri Inductor FL9H 470μH (K) | 1 |
| (2)-VR1,2 | EV650891 | Semi-fixed/Vol. V10K8-4-2 50kB | 2 |
| (2)-VR3 | EV560103 | Semi-fixed/Vol. V10K8-4-2 100 ohmsB | 1 |
| (2)-T1 | EO620482 | OSC Coil OT-925 | 1 |
| (2)-3 | EJ207854 | 3P Plug, PC | 1 |
| (2)-4 | EJ207865 | 4P Plug, PC | 1 |
| (2)-5 | EZ668147 | Power Supply Heat-sink Plate (CB-5021) | 1 |
| (2)-6 | ZS421806 | Screw, pan head 3x8 | 2 |
| (2)-7 | ZW273756 | Nut M3, #1 | 2 |
| (2)-8 | ZS558101 | Screw, pan head 3x6 w/washer | 2 |
| (2)-R1 | ER264947 | Fuse/R, FRN 1/4W 56 ohms (J) (CEE) | 1 |
| (2)-R2 | ER265048 | Metal Oxide Film/R. 2W 270 ohms (J) (CEE) | 1 |
| (2)-R7 | ER265072 | Metal Oxide Film/R. 2W 180 ohms (J) (CEE) | 1 |
| (2)-C5 | EC460091 | Plastic Film/C. 3300PF (J) 500WV | 1 |
| (2)-C6,7 | EC663715 | Styrol/C. 820PF (J) 50WV | 2 |

## (3) SERVO P.C BOARD (CA-2218) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (3)-1 | BA681175 | Servo P.C Board Comp. (CA-2218) | 1 |
| (3)-TR1to6 | ET592424 | Transistor 2SC1647 (S) (E) | 6 |
| (3)-D1to4 | ED224548 | Silicon Diode 10D2 | 4 |
| (3)-D5 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (3)-L1 | EO538391 | Ferri Inductor FL11H 100MH (J) | 1 |
| (3)-C1 | EC487157 | NP/C. 0.47μF (M) 50WV (Vert. Type) | 1 |

## (4) SYS. CON P.C BOARD (CB-5004) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (4)-1 | BA681210 | Sys. Con P.C Board Comp. (CE-5004) | 1 |
| (4)-TR1,2 | ET666415 | Transistor 2SB605 (K) (L) | 2 |
| (4)-TR3 | ET398711 | Transistor 2SC945L (Q) (R) | 1 |
| (4)-TR4 | ET517375 | Transistor 2SD360 (D) (E) | 1 |
| (4)-TR5 | ET666404 | Transistor 2SD571 (K) (L) | 1 |
| (4)-TR7 | ET666404 | Transistor 2SD571 (K) (L) | 1 |
| (4)-TR8 | ET557976 | Transistor 2SA628 (E) (F) | 1 |
| (4)-TR9,10 | ET398711 | Transistor 2SC945L (Q) (R) | 2 |
| (4)-TR11 | ET557976 | Transistor 2SA628 (E) (F) | 1 |
| (4)-TR12 | ET666404 | Transistor 2SD571 (K) (L) | 1 |
| (4)-TR13to21 | ET398711 | Transistor 2SC945L (Q) (R) | 8 |
| (4)-TR22 | ET666393 | Transistor 2SC1211 (E) (F) | 1 |
| (4)-TR23 | ET398711 | Transistor 2SC945L (Q) (R) | 1 |
| (4)-TR24 | ET666404 | Transistor 2SD571 (K) (L) | 1 |
| (4)-TR25to34 | ET398711 | Transistor 2SC945L (Q) (R) | 10 |
| (4)-TR35 | ET666707 | Transistor 2SD401 (K) (L) | 1 |
| (4)-TR36 | ET557976 | Transistor 2SA628 (E) (F) | 1 |
| (4)-D1to5 | ED560913 | Silicon Diode 1S2473VE | 4 |
| (4)-D6,7 | ED219464 | Germanium Diode 1N34A | 2 |
| (4)-D8,9 | ED624903 | Silicon Diode 1S2473 | 2 |
| (4)-D10,11 | ED560913 | Silicon Diode 1S2473VE | 2 |
| (4)-D12 | ED624903 | Silicon Diode 1S2473 | 1 |
| (4)-D13 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D14,15 | ED624903 | Silicon Diode 1S2473 | 2 |
| (4)-D16,17 | ED560913 | Silicon Diode 1S2473VE | 2 |
| (4)-D18 | ED624903 | Silicon Diode 1S2473 | 1 |
| (4)-D19to21 | ED560913 | Silicon Diode 1S2473VE | 3 |
| (4)-D22to24 | ED624903 | Silicon Diode 1S2473 | 3 |
| (4)-D25 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D26 | ED624903 | Silicon Diode 1S2473 | 2 |
| (4)-D27 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D28,29 | ED624903 | Silicon Diode 1S2473 | 2 |
| (4)-D30,31 | ED560913 | Silicon Diode 1S2473VE | 2 |
| (4)-D32 | ED624903 | Silicon Diode 1S2473 | 1 |
| (4)-D33 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D34 | ED624903 | Silicon Diode 1S2473 | 1 |
| (4)-D35 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D36to39 | ED624903 | Silicon Diode 1S2473 | 4 |
| (4)-D40 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D41 | ED624903 | Silicon Diode 1S2473 | 1 |
| (4)-D42,43 | ED560913 | Silicon Diode 1S2473VE | 2 |
| (4)-D44 | ED624903 | Silicon Diode 1S2473 | 1 |
| (4)-D45to47 | ED560913 | Silicon Diode 1S2473VE | 3 |
| (4)-D48 | ED624903 | Silicon Diode 1S2473 | 1 |
| (4)-D49 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D50,51 | ED624903 | Silicon Diode 1S2473 | 2 |
| (4)-D53,54 | ED560913 | Silicon Diode 1S2473VE | 2 |
| (4)-D55,56 | ED624903 | Silicon Diode 1S2473 | 2 |
| (4)-D57 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D58,59 | ED624903 | Silicon Diode 1S2473 | 2 |
| (4)-D60 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D61to65 | ED624903 | Silicon Diode 1S2473 | 5 |
| (4)-D66 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D67to71 | ED624903 | Silicon Diode 1S2473 | 5 |
| (4)-D72 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (4)-D73to75 | ED624903 | Silicon Diode 1S2473 | 3 |
| (4)-D76to79 | ED224550 | Silicon Diode 10D4 | 4 |
| (4)-D80to84 | ED560913 | Silicon Diode 1S2473VE | 5 |
| (4)-D85 | ED219464 | Germanium Diode 1N34A | 1 |
| (4)-D86,87 | ED560913 | Silicon Diode 1S2473VE | 2 |
| (4)-TH1 | ED666314 | Thermister PTH63AR6R8M2E491 | 1 |
| (4)-RL1 | EP616500 | Relay LC1-C-JT DC24V | 1 |
| (4)-2 | MZ668035 | Heat-sink plate B (CB-5013) | 1 |
| (4)-3 | ZS421806 | Screw, pan head 3x8 | 1 |
| (4)-4 | ZW273756 | Nut M3, #1 | 1 |
| (4)-5 | ZS379350 | Screw, pan head 3x6 | 2 |
| (4)-6 | MT553948 | Wire Band B-100 (2-35-3) | 1 |
| (4)-R45 | ER389507 | Metal Oxide Film/R. 2W 430 ohms (K) | 1 |
| (4)-R111 | ER563253 | Cement/R. 3W 2.2 ohms (K) (Wire-wound Type) | 1 |

## (5) TOUCH SW. P.C BOARD (CI-2012) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (5)-1 | BA681254 | Touch SW. P.C Board Comp. (CI-2012) | 1 |
| (5)-TR1 | ET491051 | FET 2SK30A (GR) | 6 |
| (5)-TR2 | ET638504 | Transistor 2SC945L (P) | 6 |
| (5)-TR3to7 | ET639437 | Transistor 2SC945L (Q) (P) | 10 |
| (5)-D1to9 | ED560913 | Silicon Diode 1S2473VE | 9 |
| (5)-D11to13 | ED560913 | Silicon Diode 1S2473VE | 3 |
| (5)-C4 | EC523282 | Solid Aluminum/C. 0.1μF (M) 25WV (Vert. Type) | 6 |

## (6) REPEAT SW. P.C BOARD (CI-5036) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (6)-1 | BA681930 | Repeat SW. P.C Board Comp. (CI-5036) | 1 |
| (6)-TR1 | ET639437 | Transistor 2SC945L (Q) (P) | 1 |
| (6)-D1 | ED624903 | Silicon Diode 1S2473 | 1 |
| (6)-SW1,2 | ES419286 | Push SW. UEG-22DE | 2 |
| (6)-2 | TC693358 | Memory Table (CI-1013) | 1 |
| (6)-3 | ZS592378 | Screw, pan head 2.6x3 | 2 |
| (6)-4 | SK665223 | Memory Cap A (AA-5521) | 2 |

## (7) STOP DETECTION P.C BOARD (CB-2026) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (7)-1 | BA670195 | Stop Detection P.C Board Comp. (CB-2026) | 1 |
| (7)-IC1 | EI620640 | IC DN835 | 1 |
| (7)-TR1 | ET638504 | Transistor 2SC945L (P) | 1 |
| (7)-2 | TC613541 | IC Retainer (CW-5002) | 1 |

## (8) NOISE FILTER P.C BOARD (CB-2027) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (8)-1 | BA237317 | Noise Filter P.C Board Comp. (CB-2027) | 1 |
| (8)-L1to4 | EO669273 | Inductor FL5R-200 | 4 |
| (8)-2 | MZ669251 | P.C Board Holder D (CB-2028) | 1 |
| (8)-3 | ZS558101 | Screw, pan head 3x6 w/washer | 1 |

## (9) SW. P.C BOARD (CI-5029) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (9)-1 | BA681287 | SW. P.C Board Comp. (CI-5029) | 1 |
| (9)-TR1to3 | ET639437 | Transistor 2SC945L (Q) (P) | 6 |
| (9)-D1,2 | ED560913 | Silicon Diode 1S2473VE | 4 |
| (9)-SW1to3 | ES691413 | Lever SW. SLK04201 | 3 |

## (10) MONITOR SW. P.C BOARD (CI-5003) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (10)-1 | BA681333 | Monitor SW. P.C Board Comp. (CI-5003) | 1 |
| (10)-SW5 | ES691424 | Lever SW. SLK04251 | 1 |
| (10)-C1 | EC621257 | Solid Aluminum/C. 0.47μF(M) 25WV (Vert. Type) | 2 |

## (11) EQ. P.C BOARD (CI-5028) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (11)-1 | BA681298 | EQ. P.C Board Comp. (CI-5028) | 1 |
| (11)-TR1 | ET398711 | Transistor 2SC945L (Q) (R) | 2 |
| (11)-TR2 | ET638504 | Transistor 2SC945L (P) | 1 |
| (11)-D1,2 | ED560913 | Silicon Diode 1S2473VE | 2 |
| (11)-SW1 | ES691435 | Rotary SW. SRE-273 | 1 |
| (11)-RL1 | EP621808 | Relay MTS-2 | 1 |
| (11)-RL2 | EP691446 | Relay MZ-24HG | 1 |
| (11)-T1 | BT490702 | Headphone Trans. N19-349S | 2 |
| (11)-L1 | EO692741 | Ferri Inductor 33Y-740 | 2 |
| (11)-VR1 | EV520806 | Semi-fixed/Vol. V8K4-1 10 kB | 2 |
| (11)-VR2 | EV464207 | Semi-fixed/Vol. V8K4-1 5 kB | 2 |
| (11)-VR3 | EV520806 | Semi-fixed/Vol. V8K4-1 10 kB | 2 |
| (11)-VR4 | EV464218 | Semi-fixed/Vol. V8K4-1 30 kB | 1 |
| (11)-VR5 | EV691391 | Vol. VM10E076 1 kB | 1 |
| (11)-VR6 | EV691380 | Vol. VM10R840 5 kB | 1 |
| (11)-2 | EJ699355 | 6P Plug, PC | 1 |
| (11)-C13 | EC516756 | Styrol/C. 390PF (K) 50WV (Vert. Type) | 1 |

## (12) PEAK SW. P.C BOARD (CI-5005) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (12)-1 | BA681344 | Peak SW. P.C Board Comp. (CI-5005) | 1 |
| (12)-TR1to6 | ET639437 | Transistor 2SC945L (Q) (P) | 12 |
| (12)-D1to4 | ED560913 | Silicon Diode 1S2473VE | 8 |
| (12)-SW1 | ES557908 | Single Push SW. 1FS-8U-48 | 1 |
| (12)-IND3,4 | EL604372 | Lamp 8V 50MA (Cord Type) | 2 |
| (12)-2 | TC690816 | Peak SW. Table (CI-5004) | 1 |
| (12)-3 | ZS417216 | Screw, pan head 3x4 | 2 |
| (12)-4 | ZS325495 | Tapping Screw #2 3x6 (BR) | 1 |
| (12)-5 | EZ586326 | Lamp Holder (LF-5324) | 2 |
| (12)-C8 | EC675178 | Solid Aluminum/C. 0.47μF (K) 25WV (Vert. Type) | 2 |

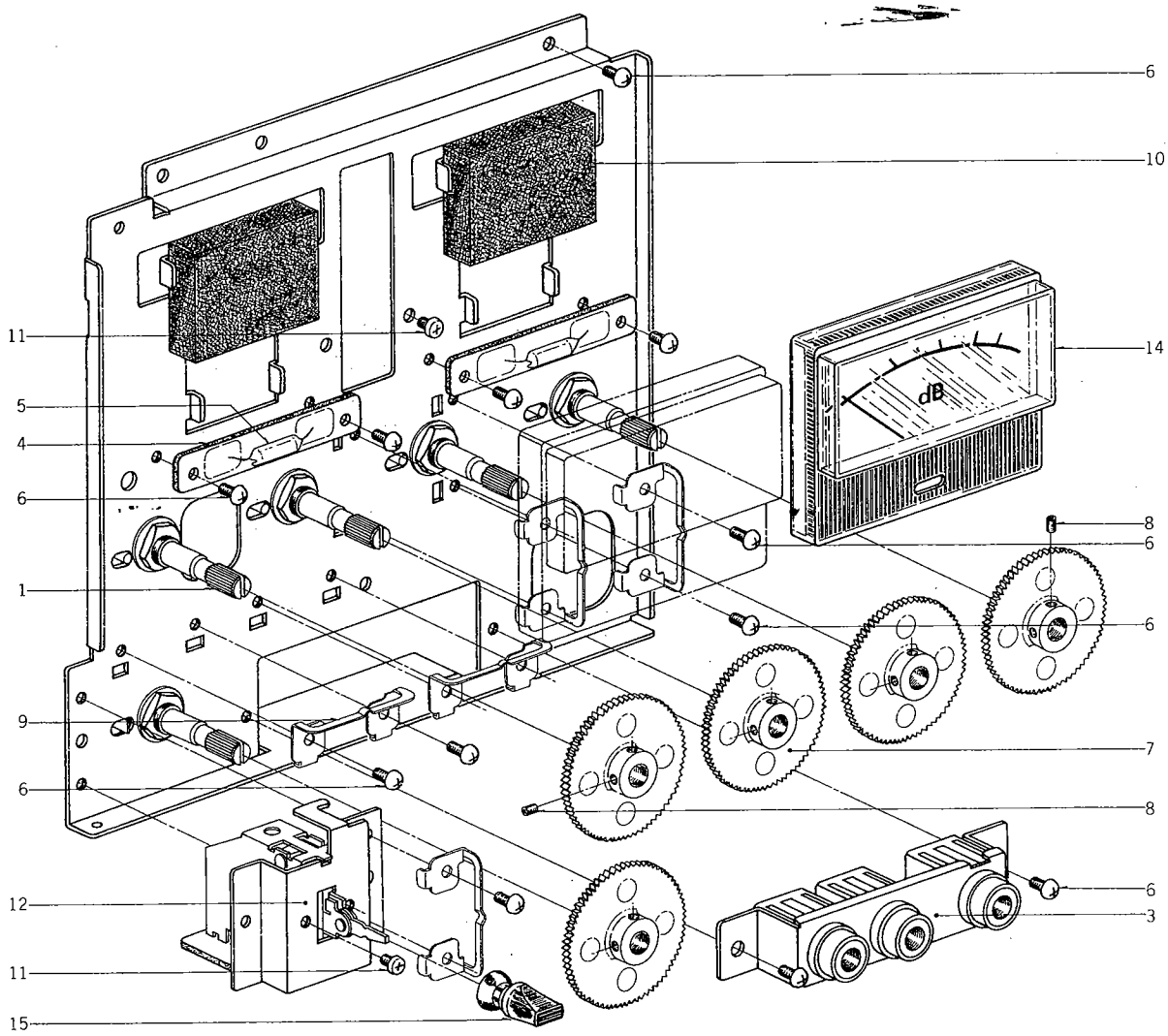
## (13) DOOR SW. P.C BOARD (CI-5045) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (13)-1 | BA273341 | Door SW. P.C Board Comp. (CI-5045) | 1 |
| (13)-2 | BA681311 | DOOR SW. P.C Board Comp. (CI-5026) (Old Type) | 1 |
| (13)-TR1 | ET639437 | Transistor 2SC945L (Q) (P) | 1 |
| (13)-TR2 | ET655356 | Transistor 2SD571 (L) (M) | 1 |
| (13)-D1 | ED560913 | Silicon Diode 1S2473VE | 1 |
| (13)-L1,2 | EO669273 | Inductor FL5R-200 | 2 |
| (13)-FR1 | ER561216 | Fuse/R. FRN1/4 100 ohms (K) 50MA | 1 |
| (13)-C4 | EC657044 | NP Elect./C. 1μF (M) 50WV (Vert. Type) | 1 |

## (14) PROTECTION P.C BOARD (CB-5028) BLOCK

| Symbol No. | Parts No. | Description | Q'ty |
|---|---|---|---|
| (14)-1 | BA272542 | Protection P.C Board Comp. (CB-5028) | 1 |
| (14)-TR1 | ET666707 | Transistor 2SD401 (K) (L) | 1 |
| (14)-2 | EJ524700 | Canoe Clip | 1 |

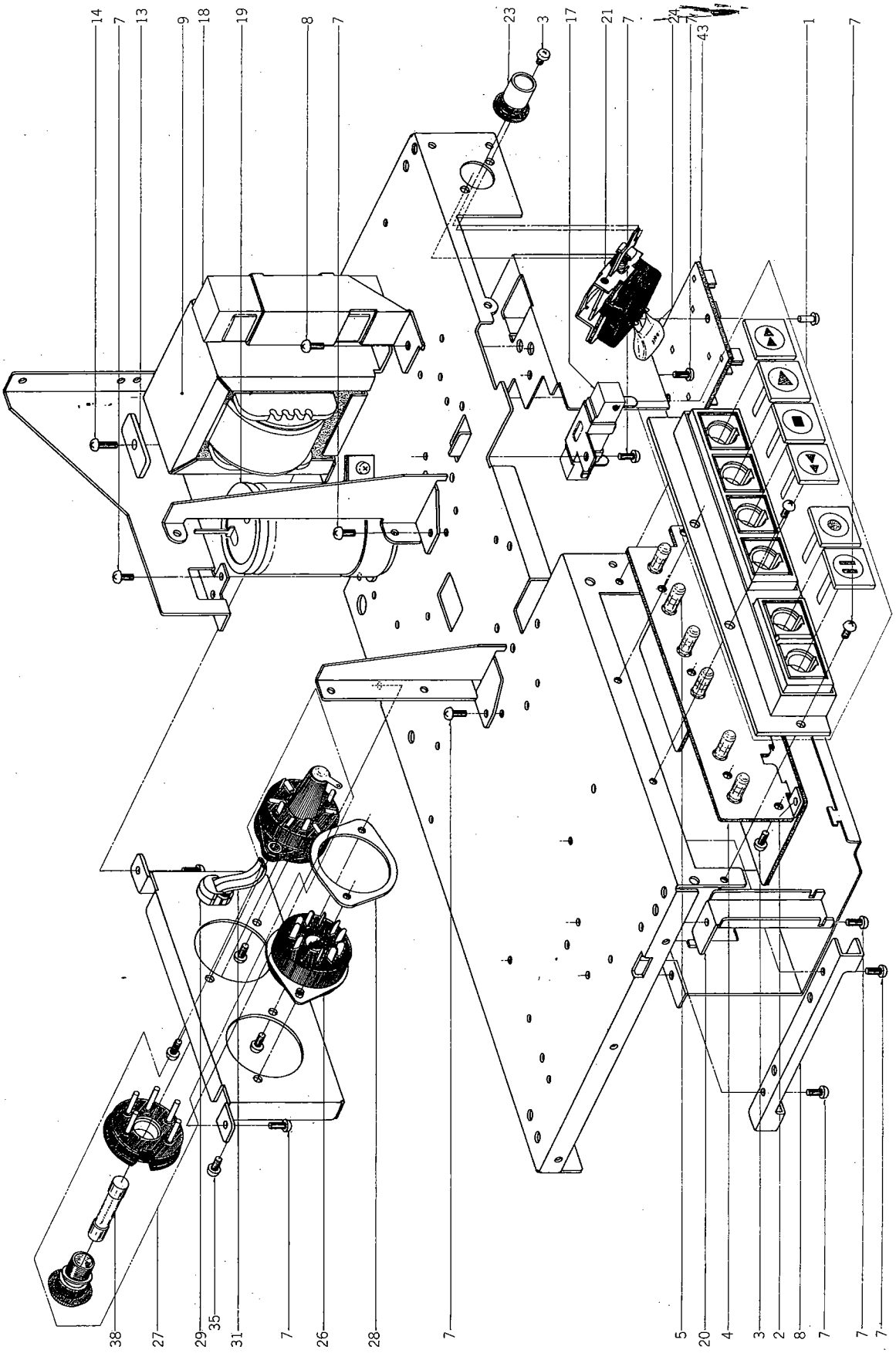
## 9. ILLUSTRATION OF CONTROL CHASSIS BLOCK




## 9) CONTROL CHASSIS BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| 9-1 | EV691468 | Vol. VJ10R670 50 kA | 36-2-41 | 4 |
| 9-2 | EV691470 | Co-axial 2-throw Volume GJ70R519 10kBx2 | 36-1-46 | 1 |
| 9-3 | EJ692561 | 3-throw Jack | 31-2-73 | 1 |
| 9-4 | EA449414 | Lamp P.C Board | BS-5005 | 2 |
| 9-5 | EL295312 | Lamp (L/T) 8V 0.2A | 28-2-8 | 2 |
| 9-6 | ZS325495 | Tapping Screw #2 3x6 (BR) | | 19 |
| 9-7 | EZ535432 | Clic Gear | TW-5018 | 5 |
| 9-8 | ZS609232 | Set Screw, hexagon socket 3x3 (CUP/P.) | | 10 |
| 9-9 | ZG535454 | Click Spring | TW-5020 | 5 |
| 9-10 | EZ203771 | Meter Cushion | CI-5039 | 2 |
| 9-11 | ZS417216 | Screw, pan head 3x4 | | 4 |
| 9-12 | TC690794 | Tape Source Table | CI-5002 | 1 |
| 9-13x | TC203782 | Lamp Shield | CI-5040 | 1 |
| 9-14 | EM692583 | VU Meter KL-250L-8 | 46-1-131 | 2 |
| 9-15 | ES691323 | Tape SW. (1) | CI-6028 | 1 |

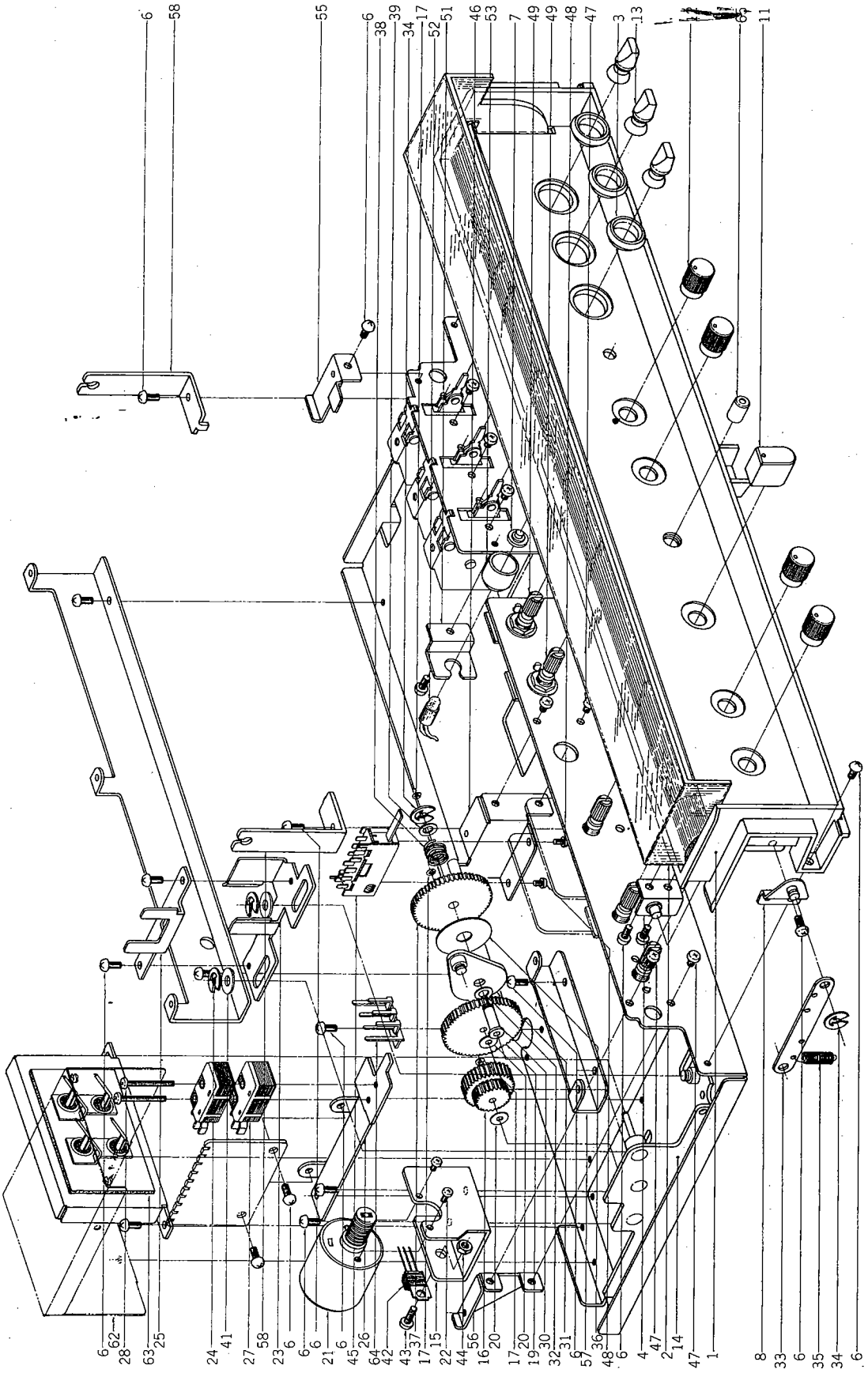
## 10. ILLUSTRATION OF SYS. CON CHASSIS BLOCK



## 10) SYS. CON CHASSIS BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | **TOUCH BUTTON BLOCK** | | | |
| 10-1 | BK207674 | Touch Button Holder Comp. | CI-2018 | 1 |
| 10-2 | TC690636 | Card Connecting Plate | CI-2015 | 2 |
| 10-3 | ZS417216 | Screw, pan head 3x4 | | 6 |
| 10-4 | EA690535 | Button Lamp P.C Board | CI-2006 | 1 |
| 10-5 | EL621167 | Lamp (L/T) 5.5V 60MA | 28-2-36 | 5 |
| 10-6x | ED624903 | Silicon Diode 1S2473 | 45-3-28 | 5 |
| | **SYS. CON CHASSIS BLOCK** | | | |
| 10-7 | ZS325495 | Tapping Screw #2 3x6 (BR) | | 22 |
| 10-8 | TC667967 | P.C Board Support A | CB-5009 | 2 |
| 10-9 | BT699287 | Power Trans. CIT-1 (U/T) | 38-4-421 | 1 |
| 10-10x | BT694822 | Power Trans. CIT-4 (CEE) | 38-4-424 | 1 |
| 10-11x | BT694811 | Power Trans. CIT-3 (CSA) | 38-4-423 | 1 |
| 10-12x | BT694800 | Power Trans. CIT-2 (JPN) | 38-4-422 | 1 |
| 10-13 | EZ486617 | Trans. Reinforcement Plate B | LF-5222 | 2 |
| 10-14 | ZS447840 | Tapping Screw #2 3x8 (BR) | | 2 |
| 10-15x | ZS434250 | Screw, pan head 4x8, w/washer | | 4 |
| 10-16x | ZW413188 | Nut M4, #1 | | 4 |
| 10-17 | ER261821 | Cement/R. RGB 10H 51 ohms (K) | 35-16-68 | 1 |
| 10-18 | ER666775 | Cement/R. 30W 650 ohms (K) (Wire-wound Type) | 35-16-62 | 1 |
| 10-19 | EC684472 | Elect./C. 330μF 160WV (Wrapping Type) | 24-10-108 | 1 |
| 10-20 | TC693516 | P.C Board Holder | CI-2014 | 2 |
| 10-21 | ES469541 | Push SW. TV-3 JB52 (U/T, CSA, JPN) | 25-5-60 | 1 |
| 10-22x | ES499972 | Push SW. JS-09 (CEE) | 25-5-67 | 1 |
| 10-23 | SK567472 | Knob 2 | CP-5019 | 1 |
| 10-24 | EC699298 | PE-9P Film/C. 0.1μF (K) 600WV | 24-3-8 | 1 |
| 10-25x | EC565896 | Ceramic/C. DP6600YM 0.01μF (P) 125WV (CSA) | 24-5-58 | 1 |
| 10-26 | EJ222748 | Socket, sub magnale #311SG | 31-1-39 | 1 |
| 10-27 | EJ233370 | Socket (Volt. Selector) S-18010 | 40-2-3 | 1 |
| 10-28 | MZ302400 | Remote Control Socket Mt. Plate | RX-515 | 1 |
| 10-29 | EZ631945 | Strain Relief SR-4N-4 | 2-7-49 | 1 |
| 10-30x | EZ246936 | Strain Relief SR-6W-1 (WG, 3 Core) | 2-7-8 | 1 |
| 10-31 | EW540123 | AC Cord (CUL) 2.5M | 26-3-20 | 1 |
| 10-32x | EW641248 | AC Cord (CEE) VM-0065 | 26-3-28 | 1 |
| 10-33x | EW556704 | AC Cord (J) 2.5M | 26-3-31 | 1 |
| 10-34x | EW516475 | AC Cord CUL | 26-3-45 | 1 |
| 10-35 | ZS201150 | Screw, truss head 3x6 (Black) | | 4 |
| 10-36x | ZS201150 | Screw, truss head 3x6 (Black) | | 2 |
| 10-37x | EJ254957 | Lug Plate KP1L (KMA only) | 33-3-2 | 1 |
| 10-38 | EF590692 | Fuse 1.2A 250V | 39-1-50 | 1 |
| 10-39x | EF593706 | Fuse (SEMKO T Type) 500 MAT | 39-1-53 | 1 |
| 10-40x | EF623103 | Fuse (SEMKO T Type) 1 AT | 39-1-53 | 1 |
| 10-41x | EF668610 | Fuse ULMF61M 250V 1.2A (CSA) | 39-1-45 | 2 |
| 10-42x | EF590692 | Fuse 1.2A 250V (JPN) | 39-1-50 | 2 |
| 10-43 | EJ666742 | 2P Fuse Holder (Large) | 40-1-90 | 1 |
| 10-44x | EJ666753 | 2P Fuse Holder (Small) | 40-1-91 | 1 |
| 10-45x | ZW273881 | Earth Lug M4 (BEAB only) | | 1 |
| 10-46x | ZW413188 | Nut M4, #1 (BEAB only) | | 1 |
| 10-47x | ZS434250 | Screw, pan head 4x8, w/washer (BEAB only) | | 1 |
| 10-48x | EJ539447 | Earth Terminal 2P T4460 | 32-1-32 | 1 |
| 10-49x | ZS325495 | Tapping Screw #2 3x6 (BR) | | 7 |

## 11. ILLUSTRATION OF AMP CHASSIS BLOCK

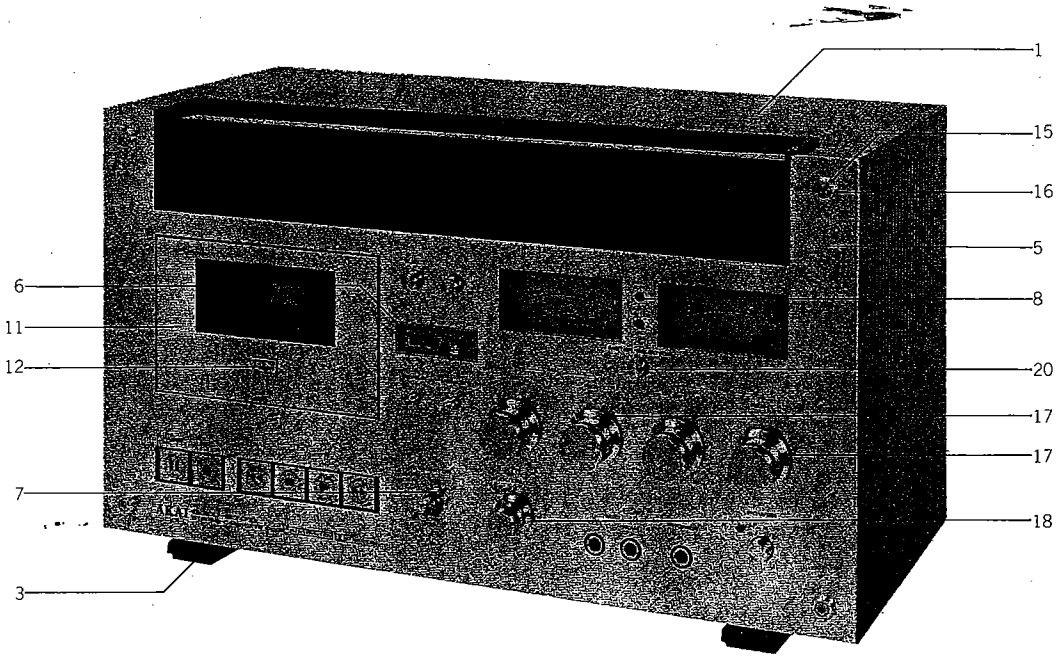



When ordering parts, Please describe Parts Number, Serial Number, and Model Number in detail.

## 11) AMP CHASSIS BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | | **SELECTOR BOX BLOCK** | | |
| 11-1 | TC693641 | Selector Box | CI-6001 | 1 |
| 11-2 | BC694708 | Dust Cover | CI-6002 | 1 |
| 11-3 | SZ691154 | SW. Collar | CI-6006 | 3 |
| 11-4 | TC691121 | Cover Table A, w/door shaft | CI-6003 | 1 |
| 11-5 | TC692471 | Cover Table B, w/door shaft | CI-6003 | 1 |
| 11-6 | ZS325495 | Tapping Screw #2 3x6 (BR) | | 16 |
| 11-7 | SF639696 | Lamp Lens B-2 | NE-6005 | 1 |
| 11-8 | TC691143 | Lid Stop Plate, w/slide pin | CI-6005 | 1 |
| 11-9x | ZS379350 | Screw, pan head 3x6 | | 1 |
| 11-10x | ZW273756 | Nut M3, #1 | | 1 |
| 11-11 | SK691288 | Selector Knob | CI-6020 | 1 |
| 11-12 | SK691290 | Adjust Knob | CI-6021 | 4 |
| 11-13 | SK691312 | Dolby Knob | CI-6027 | 3 |
| | | **DOOR OPEN BLOCK** | | |
| 11-14 | TC690917 | Door Open Table, w/shaft & gear shaft table | CI-5014 | 1 |
| 11-15 | TC693551 | Motor Table | CI-5025 | 1 |
| 11-16 | TC693527 | Wheel Gear | CI-5018 | 1 |
| 11-17 | ZW356657 | 'E' Ring 1.5M | 6-1-9 | 3 |
| 11-18 | ZW474592 | Washer (Teflon) D2.1x7x0.2t | | 1 |
| 11-19 | TC690952 | Middle Gear | CI-5019 | 1 |
| 11-20 | ZW394007 | Washer (Rubber) D2.1x7x0.5t | | 1 |
| 11-21 | BM692550 | Motor RF-260-09400, w/warning gear & motor shield | | 1 |
| 11-22 | ZS432843 | Screw, pan head 2.6x4 | | 2 |
| 11-23 | TC690974 | SW. Slide | CI-5021 | 1 |
| 11-24 | ZW290294 | 'U' Ring 2.85M | 6-1-1B | 2 |
| 11-25 | TC690985 | Detector Plate | CI-5022 | 1 |
| 11-26 | MZ693538 | SW. Table | CI-5023 | 1 |
| 11-27 | ES691457 | Micro SW. VU-SR | 25-1-36 | 1 |
| 11-28 | ZS467796 | Screw, pan head 2.6x12 | | 2 |
| 11-29x | ZW562476 | Earth Lug M3 | | 1 |
| 11-30 | TC568361 | Wheel Collar | CP-1054 | 1 |
| 11-31 | TC693540 | Friction Plate, w/mute shaft | CI-5024 | 1 |
| 11-32 | ZW589893 | Washer (PBP) D4.1x7x0.4t | | 1 |
| 11-33 | TC693573 | Connecting Plate | CI-5027 | 1 |
| 11-34 | ZW290294 | 'U' Ring 2.85M | 6-1-1B | 2 |
| 11-35 | ZG244067 | Door Open Spring | CI-5043 | 1 |
| 11-36 | MT632733 | Clutch Felt | CW-1078 | 1 |
| 11-37 | TC690963 | Friction Gear | CI-5020 | 1 |
| 11-38 | ZG227586 | Spring K | 900-214 | 1 |
| 11-39 | ZW259773 | Washer (Nylon) D4.1x7x0.5t | | 1 |
| 11-40x | ZW474592 | Washer (Teflon) D2.1x7x0.2t | | 1 |
| 11-41 | ZW565200 | Washer (BSP) D4.1x10x0.3t | | 2 |
| 11-42 | ET517375 | Transistor 2SD360 (D) (E) | 45-1-142 | 1 |
| 11-43 | ZS421806 | Screw, pan head 3x8 | | 1 |
| 11-44 | ZW273756 | Nut M3, #1 | | 1 |
| | | **AMP CHASSIS BLOCK** | | |
| 11-45 | ES691378 | Push SW. UEG-42L | 25-5-212 | 1 |
| 11-46 | TC693707 | Tone SW. Table | CI-5010 | 1 |
| 11-47 | ZS417216 | Screw, pan head 3x4 | | 4 |
| 11-48 | ZS592378 | Screw, pan head 2.6x3 | | 2 |
| 11-49 | EV691402 | Vol. VM10E937 10 kB | 36-6-21 | 2 |
| 11-50x | EJ207887 | 4P Mini. Socket, PC | 31-1-165 | 1 |
| 11-51 | TC693674 | Lamp Table | CI-5007 | 1 |
| 11-52 | EL623788 | Lamp (Cord Type) 24V 35MA (100MMx2) | 28-2-24 | 1 |
| 11-53 | EZ586326 | Lamp Holder | LF-5324 | 1 |
| 11-54x | EJ207876 | 3P Mini. Socket, PC | 31-1-164 | 1 |
| 11-55 | TC693718 | Case Stopper 1 | CI-5011 | 1 |
| 11-56 | TC693720 | Case Stopper 2 | CI-5012 | 1 |
| 11-57 | TC693685 | Selector Plate Stopper | CI-5008 | 1 |
| 11-58 | TC693617 | Hinge Plate | CI-5031 | 2 |
| 11-59x | ZS325495 | Tapping Screw #2 3x6 (BR) | | 3 |
| 11-60x | ZS417216 | Screw, pan head 3x4 | | 6 |
| 11-61x | ZS325495 | Tapping Screw #2 3x6 (BR) | | 2 |
| 11-62 | TC265050 | Motor Shield Plate | CI-5044 | 1 |
| 11-63 | EJ669745 | 4P Jack Plate | 31-5-130 | 1 |
| 11-64 | EJ551035 | Wrapping Terminal, 4P T5251 | 32-1-36 | 1 |
| 11-65 | SB613618 | Memory Button | CW-5007 | 1 |
| 11-66x | ZS325495 | Tapping Screw #2 3x6 (BR) | | 16 |

## 12. PHOTO OF FINAL ASSEMBLY BLOCK




## 12) FINAL ASSEMBLY BLOCK

| Ref. No. | Parts No. | Description | Schematic No. | Q'ty |
|---|---|---|---|---|
| | **CASE BLOCK** | | | |
| 12-1 | BC691301 | Case | CI-6024 | 1 |
| 12-2x | SE641597 | Ventilation | AA-5249 | 1 |
| 12-3 | SA640934 | Square Foot | TE-6020 | 2 |
| 12-4x | ZS200610 | Tapping Screw #1 4x12 (Truss) | | 4 |
| | **FRONT PANEL BLOCK** | | | |
| 12-5 | BD681118 | Front Panel Block Comp. | | 1 |
| 12-6 | SE691255 | Counter Escutcheon | CI-6017 | 1 |
| 12-7 | TC691233 | SW. Collar B | CI-6015 | 1 |
| 12-8 | SE639707 | Lamp Lens B-3 | NE-6005 | 2 |
| 12-9x | BA693360 | Frame | CI-1015 | 1 |
| | **LID PANEL BLOCK** | | | |
| 12-10x | BD681120 | Lid Panel Block Comp. | CA,CI | 1 |
| 12-11 | BD644365 | Lid Panel | CA-6007 | 1 |
| 12-12 | SM518310 | Name Plate (GX) B | CG-6411 | 1 |
| | **ASSEMBLY BLOCK** | | | |
| 12-13x | ZW381881 | Washer D4.1x13x1t | | 10 |
| 12-14x | ZS447805 | Tapping Screw #2 3x12 (BR) | | 10 |
| 12-15 | ZW691266 | Panel Washer | CI-6018 | 4 |
| 12-16 | ZS691277 | Panel Screw | CI-6019 | 4 |
| 12-17 | SK694710 | Knob 1 | CI-6022 | 4 |
| 12-18 | SK694721 | Knob 2 | CI-6023 | 1 |
| 12-19x | ZW290283 | 'U' Ring 2.85M | 6-1-1 | 1 |
| 12-20 | SK634410 | Push Button Knob J | 91-5051 | 1 |

## 13. LIST OF INTERCHANGEABLE SEMICONDUCTORS

As far as service in concerned, in case the original parts cannot be obtained, the interchangeable parts listed below can be substituted.

| Original Parts | | | Interchangeable Parts | |
|---|---|---|---|---|
| Description | Parts No. | Utilizing P.C Board | Description | Parts No. |
| 2SA628 (E) (F) | ET557976 | CB-5004 | 2SA564 (Q) (R)<br>2SA733 (P) (Q) | ET538154<br>ET554657 |
| 2SB605 (K) (L) | ET666415 | CB-5004 | | |
| 2SC458LG (C) | ET234854 | CA-5205 | 2SC458 (C)<br>2SC693U (F)<br>2SC1312S (G) (H) | ET329218<br>ET315472<br>ET603257 |
| 2SC945L (P) | ET638504 | CI-2012<br>CI-5028<br>CB-2026 | 2SC711 (E) (F)<br>2SC1641 (R) (S) (E)<br>2SC1647 (R) (S) (E) | ET453486<br>ET603843<br>ET623733 |
| 2SC945L (Q) (P) | ET639437 | CI-5030<br>CI-5005<br>CI-5029<br>CI-5036 | | |
| 2SC945L (Q) (R) | ET398711 | CI-2012<br>CB-5004<br>CI-5028<br>CA-5205 | | |
| 2SC1175 (E) (F) | ET622080 | CI-5030 | 2SC1211 (E) (F) | ET666393 |
| 2SC1211 (E) (F) | ET666393 | CB-5004 | 2SC1175 (E) (F)<br>2SC1247A (B) (V) | ET622080<br>ET511920 |
| 2SC1222 (E) (F) | ET469810 | CA-5205 | 2SC458LG (C)<br>2SC1000GR (BL) | ET234854<br>ET622181 |
| 2SC1647 (S) (E) | ET592424 | CI-2020 | 2SC536 (F) (G) (H)<br>2SC945L (K) (P) (Q) | ET632215<br>ET632204 |
| 2SC1683 (P) (Q) | ET635826 | CI-5030 | T1P47<br>T1P48 | ET621775<br>ET621786 |
| 2SD360 (D) (E) | ET517375 | CB-5004 | 2SC1098 (L) (K)<br>2SD325 (D) (E) | ET465208<br>ET631855 |
| 2SD361 (D) (E) | ET537300 | CI-5030 | 2SC1098 (L) (M) | ET476886 |
| 2SD401 (K) (L) | ET666707 | CB-5004 | | |
| 2SD571 (K) (L) | ET666404 | CB-5004<br>CI-5030 | | |
| 2SD571 (L) (M) | ET650553 | CI-5026 | | |
| 2SK30A (D)<br>2SK30A (GR) | ET645917<br>ET491051 | CA-5205<br>CI-2012 | | |
| 2SK68A (L) (M) | ET669633 | CA-5205 | 2SK34 (D) | ET603270 |
| μPC1023H | EI669666 | CA-5205 | TA7122P | EI669712 |
| μPC1024H | EI669655 | CA-5205 | TA7129P | EI657000 |
| TA7122AP | EI669712 | CA-5205 | | |
| DN-835 | EI620640 | CB-2026 | | |
| 1N34A | ED219464 | CA-5205<br>CB-5004 | 1N60<br>1S188AM | ED428264<br>ED562386 |

| Original Parts | | | Interchangeable Parts | |
|---|---|---|---|---|
| Description | Parts No. | Utilizing P.C Board | Description | Parts No. |
| 1S2473<br>1S2473VE | ED624903<br>ED560913 | CA-5205<br>CB-5004<br>CI-2006<br>CI-5036<br>CI-5005<br>CI-5030<br>CI-2012<br>CI-2020<br>CI-5029<br>CI-5028<br>CI-5026 | 1S1588<br>WG599<br>WG713 | ED557447<br>ED514721<br>ED515790 |
| WZ085 | ED491130 | CA-5205 | RD9A | ED384096 |
| 10D05 | ED494583 | CI-5030 | 1N4001 | ED538615 |
| 10D2 | ED224548 | CI-2020 | 1N4003 | ED570295 |
| 10D4 | ED224550 | CB-5004 | 1N4004 | ED570273 |

NOTE: The electrical characteristics of diodes 1S2473 and 1S2473VE are exactly the same. VE indicates "Vertical Type"

# INDEX


| Parts No. | Ref. No. & Symbol No. | Parts No. | Ref. No. & Symbol No. | Parts No. | Ref. No. & Symbol No. | Parts No. | Ref. No. & Symbol No. | Parts No. | Ref. No. & Symbol No. |
|---|---|---|---|---|---|---|---|---|---|
| BA237317 | (8)-1 | ED224548 | (3)-D1to4 | EJ254957 | 10-37x | ET639437 | (5)-TR3to7 | MS644872 | 1-40 |
| BA272417 | (2)-2 | ED224550 | (4)-D76to79 | EJ524700 | (14)-2 | ET639437 | (6)-TR1 | MS645153 | 1-51 |
| BA272542 | (14)-1 | ED224550 | 7-10x | EJ539447 | 10-48x | ET639437 | (9)-TR1to3 | MS659902 | 1-27 |
| BA273341 | (13)-1 | ED491130 | (1)-D5 | EJ551035 | 11-64 | ET639437 | (12)-TR1to6 | MS659913 | 1-26 |
| BA670195 | (7)-1 | ED494583 | (2)-D2to5 | EJ666742 | 10-43 | ET639437 | (13)-TR1 | MS667473 | 1-39x |
| BA681175 | (3)-1 | ED494583 | (2)-D9,10 | EJ666753 | 10-44x | ET645917 | (1)-TR9 | MT553948 | (4)-6 |
| BA681210 | (4)-1 | ED511918 | (2)-D6,7 | EJ669745 | 11-63 | ET645917 | (1)-TR14 | MT632733 | 11-36 |
| BA681221 | (2)-1 | ED557447 | (1)-D1 | EJ692561 | 9-3 | ET655356 | (13)-TR2 | MV522235 | 1-52 |
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| BA681276 | (1)-1 | ED560913 | (1)-D7to10 | EL295312 | 6-2 | ET666415 | (4)-TR1,2 | MZ221916 | 7-28 |
| BA681287 | (9)-1 | ED560913 | (1)-D13,14 | EL295312 | 9-5 | ET666707 | (4)-TR35 | MZ302400 | 10-28 |
| BA681298 | (11)-1 | ED560913 | (2)-D8 | EL604372 | (12)-IND3,4 | ET666707 | (14)-TR1 | MZ642104 | 1-53 |
| BA681311 | (13)-2 | ED560913 | (2)-D11 | EL621167 | 10-5 | ET669633 | (1)-TR1 | MZ659981 | 3-2 |
| BA681333 | (10)-1 | ED560913 | (3)-D5 | EL623788 | 11-52 | ET699388 | (2)-TR4 | MZ668035 | (4)-2 |
| BA681344 | (12)-1 | ED560913 | (4)-D1to5 | EM692583 | 9-14 | EV464207 | (1)-VR3 | MZ668057 | 3-5 |
| BA681930 | (6)-1 | ED560913 | (4)-D10,11 | EO308395 | (1)-L2,3 | EV464207 | (1)-VR5 | MZ668968 | 3-9 |
| BA693360 | 12-9x | ED560913 | (4)-D13 | EO368403 | (1)-L4 | EV464207 | (11)-VR2 | MZ669251 | (8)-2 |
| BC691301 | 12-1 | ED560913 | (4)-D16,17 | EO464668 | (2)-L1 | EV464218 | (11)-VR4 | MZ693538 | 11-26 |
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| BM670138 | 2-2 | ED560913 | (4)-D53,54 | EP691446 | (11)-RL2 | EV691468 | 9-1 | SK691288 | 11-11 |
| BM670140 | 2-3 | ED560913 | (4)-D57 | ER261821 | 10-17 | EV691470 | 9-2 | SK691290 | 11-12 |
| BM692550 | 11-21 | ED560913 | (4)-D60 | ER264947 | (2)-R1 | EW516475 | 10-34x | SK691312 | 11-13 |
| BR670173 | 2-1 | ED560913 | (4)-D66 | ER265048 | (2)-R2 | EW540123 | 10-31 | SK694710 | 12-17 |
| BT490702 | (11)-T1 | ED560913 | (4)-D72 | ER265072 | (2)-R7 | EW556704 | 10-33x | SK694721 | 12-18 |
| BT694800 | 10-12x | ED560913 | (4)-D80to84 | ER389507 | (4)-R45 | EW641248 | 10-32x | SM518310 | 12-12 |
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| EA647190 | 6-1 | ED560913 | (12)-D1to4 | ES477966 | 6-16 | EZ586326 | (12)-5 | TC613541 | (7)-2 |
| EA669510 | 1-60x | ED560913 | (13)-D1 | ES477966 | 7-2 | EZ595653 | 6-20 | TC641632 | 1-10 |
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| EC516756 | (11)-C13 | ED624903 | (4)-D18 | ES691413 | (9)-SW1to3 | HZ227158 | 1-3 | TC645186 | 4-12 |
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| EC572613 | (1)-C3 | ED624903 | (4)-D44 | ET398711 | (4)-TR3 | MB669036 | 2-11 | TC667574 | 6-15 |
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| EC619650 | (1)-C26,27 | ED624903 | (4)-D61to65 | ET398711 | (11)-TR1 | MH644916 | 4-17 | TC667945 | 7-14 |
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| EC657044 | (13)-C4 | EF623103 | 10-40x | ET557976 | (4)-TR36 | ML667675 | 7-15 | TC690917 | 11-14 |
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| ED219464 | (1)-D15 | EJ207887 | 11-50x | ET666404 | (4)-TR12 | MS595552 | 4-4 | TC693303 | 6-7 |
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SECTION 3

# SCHEMATIC DIAGRAM

1. GXC-570D NO. 3-1 1521626B CONNECTION DIAGRAM
2. GXC-570D NO. 3-2 1521627A SCHEMATIC DIAGRAM
3. GXC-570D NO. 3-3 1521628B CONNECTION DIAGRAM

# GXC-570D

## GXC-570D AMP CONNECTION DIAGRAM

NO. 3-1 1521626B

SWITCH P.C BOARD CI-5029

PRE AMP P.C BOARD CA-5205

MONITOR SWITCH P.C BOARD CI-5003

EQUALIZER P.C BOARD CI-5028

PEAK SWITCH P.C BOARD CI-5005

DOOR SWITCH P.C BOARD CI-5026

NOTE
1. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
2. FS : FAIL SAFE RESISTORS

GXC-570D

SWITCH P.C BOARD CI-5029

MONITOR SWITCH P.C BOARD CI-5003

PRE AMP P.C BOARD CA-5205

EQUALIZER P.C BOARD CI-5028

PEAK SWITCH P.C BOARD CI-5005

DOOR SWITCH P.C BOARD CI-5026

NOTE
1. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W(J)
ALL CAPACITORS IN μF 50WV(J)
2. FS : FAIL SAFE RESISTORS

# GXC-570D AMP CONNECTION DIAGRAM

NO. 3-1 1521626B

2C

000871C

GXC-570D

TO SYSCON(MUTE) 23 24 | DOLBY NR SW 19 18 | REC CAL 17 | TAPE SELECTOR 15 | MONITOR SW 20 21

TR1 2SK68A(L)(M) TR2 2SC1222(E)(F) TR3 2SC1222(E)(F) TR4 2SC458LG(C) TR5 2SC458LG(C) TR6 2SC945L(Q)(R) TR7 2SC945L(Q)(R) TR8 2SC945L(Q)(R) TR9 2SK30A(D) TR10 2SC458LG(C) TR11 2SC458LG(C) TR12 2SC945L(Q)(R) TR13 2SC945L(Q)(R) TR14 2SK30A(D)

PB HEAD 1 2 | TAPE SELECTOR 13 12 | MIC J1 3 | LINE 4 5 6 7 8 | MIC | MPX SW 9 10 11

MPX SW 11 10 9 | MIC 8 7 6 5 | LINE 4' | MIC J2 3' | TAPE SELECTOR 12' 13' | PB HEAD 2' 1'

+B 26 | PEAK METER OUTPUT 27 | LINE OUTPUT 6 | RELAY 31 | REC HEAD 29 30 | TAPE SELECTOR 14 16 | MONITOR SW 22

LINE OUTPUT 28 | OUTPUT PEAK METER 27 | +B 26

TP1 TP2

GAIN ADJ BIAS ADJ

PRE AMP P.C BOARD CA-5205

TO SYSCON(MUTE) 23 24 | DOLBY NR SW 19 18 | REC CAL 17 | TAPE SELECTOR 15 | MONITOR SW 20 21

NOTES
1. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4(J)
ALL CAPACITORS IN uF 50WV(J)
2. ※ MARK INDICATES LOW LEAKAGE CAPACITORS
3. NL INDICATES NOISE LESS RESISTORS

# GXC-570D PRE AMP SCHEMATIC DIAGRAM

NO. 3-2 1521627A 2C

000820I

GXC-570D

NOISE FILTER P.C BOARD CB-2027

POWER SUPPLY & OSC P.C BOARD CI-5030

SERVO P.C BOARD CB-2025

STOP DETECTION P.C BOARD CB-2026

REPEAT SWITCH P.C BOARD CI-5036

SYSTEM CONTROL P.C BOARD CB-5004

PROTECTION P.C BOARD CB-5028

TOUCH SWITCH P.C BOARD CI-2012

BUTTON LAMP P.C BOARD CI-2006

# GXC-570D MECHA CONNECTION DIAGRAM

NO.3-3 1521628B

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